



April 22, 2022

Mr. Adam Vrabc  
On-Scene Coordinator  
U.S. Environmental Protection Agency, Region 5  
Superfund and Emergency Management Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604

**Subject: Data Validation Report  
Marathon Pipeline Release Site - E22505  
EPA Contract No.: 68HE0519D0005  
Task Order/Task Order Line Item No.: 68HE0519F0071/0001DC102  
Document Tracking No. 1154**

Dear Mr. Vrabc:

Tetra Tech, Inc. (Tetra Tech) is submitting this data validation report for twenty seven surface water samples (including three field duplicate samples), seven air samples, and three trip blank samples collected at the Marathon Pipeline Release Site – E22505. The samples were collected on March 12, 13, 14, 15, 16, 17, and 18, 2022, and were analyzed for volatile organic compounds, semivolatile organic compounds, and total petroleum hydrocarbons (specifically, gasoline range organics, diesel range organics, and oil range organics) by Eurofins, Chicago, IL and Teklab, Inc., Collinsville, IL. The final laboratory data package was received on March 24, 2022.

Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

If you have any questions regarding this data validation report, please call me at (484) 459-1371.

Sincerely,

A handwritten signature in blue ink that reads 'Aaron Smith'.

Aaron Smith  
Environmental Chemist

Enclosure

cc: Chris Burns, Tetra Tech Program Manager  
Carlos Menor-Salazar, Tetra Tech Project Manager  
Caeli Cleary, Tetra Tech Project Document Control Coordinator  
TOLIN File

**ATTACHMENT**

**DATA VALIDATION REPORT  
EUROFINS REPORT NOS. J213805-1, J213805-2,  
J213894-1, AND J214002-1  
TEKLAB INC. REPORT NOS. 22030865, 22030896,  
22030940, AND 22031025**

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                              |                                                |                                                                                                                                                                                            |
|-------------------------------------------|----------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505             | <b>TO/TOLIN No.</b>                            | 68HE0519F0071/0001DC102                                                                                                                                                                    |
| <b>Document Tracking No.</b>              | 1154a                                        | <b>Technical Reviewer (signature and date)</b> | <i>Harry N. Ellis III</i> 20 April 2022                                                                                                                                                    |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/6/2022                  | <b>Laboratory</b>                              | Eurofins – Chicago, IL                                                                                                                                                                     |
| <b>Laboratory Report No.</b>              | 500-213805-1                                 | <b>Analyses</b>                                | Volatile organic compounds by SW-846 method 8260B, semi volatile organic compounds by SW-846 method 8270D, and gasoline range, diesel range, and oil range organics by SW-846 method 8015C |
| <b>Samples and Matrix</b>                 | Six surface water samples and one trip blank |                                                |                                                                                                                                                                                            |
| <b>Collection Date(s)</b>                 | March 15, 2022                               |                                                |                                                                                                                                                                                            |
| <b>Field Duplicate Pairs</b>              | None                                         |                                                |                                                                                                                                                                                            |
| <b>Field QC Blanks</b>                    | EOS-TB05-031522                              |                                                |                                                                                                                                                                                            |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No rejection of data was required for this data package. The results may be used as qualified based on the findings of this report.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The sample label on the 1-liter amber container for EOS-SW08-031522 did not match the date listed on the chain of custody (COC). The date on the label was “3/16/2022” and the time listed was “1257”. The laboratory logged the sample ID according to the COC, which indicated this sample was collected on 3/15/2022 at 1257. No further action was necessary. |

**Instrument Performance Checks:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The pentachlorophenol and benzidine peak tailing factors were above acceptable limits in the DFTPP tuning standard used for SVOC analysis. The pentachlorophenol and benzidine peak tailing factors were within acceptance limits in the subsequent continuing calibration verification (CCV) standard that was analyzed prior to the project samples. This indicated that the system was in control and no further action was necessary. |

**Initial Calibration:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Continuing Calibration:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The continuing calibration verification (CCV) percent difference (%D) for phenol was outside of acceptable limits. The amount of phenol found in the CCV was greater than the amount spiked. However, there were no positive detects for phenol in the project samples. No qualifications were necessary. |

**Calibration Verification:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Method blanks:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Field blanks:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | Acetone was detected in trip blank sample EOS-TB05-031522 at a concentration of 0.0072 milligrams per liter (mg/L). Therefore, the positive acetone results above the method detection limit (MDL) and below the reporting limit (RL) in EOS-SW04-031522, EOS-SW05-031522, EOS-SW06-031522, EOS-SW07-031522, and EOS-SW08-031522 were qualified as not-detected (flagged U), and the result was raised to the value of the RL. Furthermore, the positive acetone result in EOS-SW03-031522 was greater than the RL, but less than ten times (10x) the trip blank concentration, and as a result, was qualified as estimated, potentially biased high (flagged J+). |

**Interference Check Samples (ICS) (ICP metals only):**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Surrogates and labeled compounds:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**MS/MSDs:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Post digestion spikes:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Serial dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Laboratory duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Field duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**LCSs/LCSDs:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | <p>The laboratory control sample (LCS) percent recovery (%R) for 3-nitroaniline was below acceptable limits. However, the average %R for 3-nitroaniline in the LCS/laboratory control sample duplicate (LCSD) pair was within acceptable limits. As a result, no qualifications were necessary.</p> <p>The LCS/LCSD relative percent difference (RPD) was outside of acceptable limits for the following analytes:</p> <ul style="list-style-type: none"> <li>• 1,1'-biphenyl, 2,2'-oxybis[1-chloropropane], 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2-chloronaphthalene, 2-methylnaphthalene, 2-methylphenol, 2-nitroaniline, 2-nitrophenol, 4-chlorophenyl phenyl ether, acenaphthene, acenaphthylene, bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, dibenzofuran, fluorene, hexachlorocyclopentadiene, naphthalene, nitrobenzene, and n-nitroso-diphenylamine.</li> </ul> <p>Therefore, the 2-methylnaphthalene positive results in EOS-SW04-031522, EOS-SW05-031522, EOS-SW06-031522, EOS-SW07-031522, and EOS-SW08-031522 were qualified as estimated (flagged J). All other analytes with high LCS/LCSD RPDs were not detected in the project samples; therefore, additional qualifications were not necessary.</p> |

**Sample dilutions:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Re-extraction and reanalysis:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Second column confirmation (GC and HPLC analyses only):**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Internal Standards:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Target analyte identification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Analyte quantitation and MDLs/RLs:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                                                                   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y                  | Concentrations between the MDL and RL were qualified as estimated (flagged J) by the laboratory. Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Other [specify]:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



## DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL   | Units       | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|------|-------------|------------|----------|
| EOS-SW03-031522 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | J        |         | 0.1  | 0.4 mg/L    | 0.10       | J        |
| EOS-SW03-031522 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        |         | 0.01 | 0.02 mg/L   | 0.020      | U        |
| EOS-SW03-031522 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        |         | 0.4  | 0.8 mg/L    | 0.80       | U        |
| EOS-SW03-031522 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   |      | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW03-031522 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  |      | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW03-031522 | 8260B  | Acetone                               | 0.011      |          | 0.0017  |      | 0.01 mg/L   | 0.011      | J+       |
| EOS-SW03-031522 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 |      | 0.0005 mg/L | 0.00050    | U        |
| EOS-SW03-031522 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  |      | 0.003 mg/L  | 0.0030     | U        |
| EOS-SW03-031522 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 |      | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW03-031522 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 |      | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW03-031522 | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 |      | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Cyclohexane                           | 0.00049    | U        | 0.00049 |      | 0.001 mg/L  | 0.0010     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW03-031522 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW03-031522 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW03-031522 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031522 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031522 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031522 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031522 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW03-031522 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW03-031522 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031522 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW03-031522 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | 2-Methylnaphthalene          | 0.000052   | U *1     | 0.000052 | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031522 | 8270D  | 2-Nitroaniline              | 0.001 U    | *1       | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | 2-Nitrophenol               | 0.002 U    | *1       | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 3 & 4 Methylphenol          | 0.00036 U  |          | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014 U   |          | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | 3-Nitroaniline              | 0.0014 U   | *        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047 U   |          | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031522 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043 U  |          | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018 U   |          | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 4-Chloroaniline             | 0.0016 U   |          | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051 U  | *1       | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | 4-Nitroaniline              | 0.0013 U   |          | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | 4-Nitrophenol               | 0.0059 U   |          | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031522 | 8270D  | Acenaphthene                | 0.00025 U  | *1       | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Acenaphthylene              | 0.00021 U  | *1       | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Acetophenone                | 0.00053 U  |          | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Anthracene                  | 0.00027 U  |          | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Atrazine                    | 0.0005 U   |          | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Benzaldehyde                | 0.012 U    |          | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW03-031522 | 8270D  | Benzo[a]anthracene          | 0.000045 U |          | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031522 | 8270D  | Benzo[a]pyrene              | 0.000079 U |          | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031522 | 8270D  | Benzo[b]fluoranthene        | 0.000065 U |          | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031522 | 8270D  | Benzo[g,h,i]perylene        | 0.0003 U   |          | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Benzo[k]fluoranthene        | 0.000051 U |          | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031522 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023 U  | *1       | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023 U  | *1       | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014 U   |          | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | Butyl benzyl phthalate      | 0.00038 U  |          | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | Caprolactam                 | 0.0012 U   |          | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | Carbazole                   | 0.00028 U  |          | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Chrysene                    | 0.000055 U |          | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031522 | 8270D  | Dibenz(a,h)anthracene       | 0.000041 U |          | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW03-031522 | 8270D  | Dibenzofuran                | 0.00021 U  | *1       | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031522 | 8270D  | Diethyl phthalate                     | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Di-n-octyl phthalate                  | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031522 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Fluorene                              | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW03-031522 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031522 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031522 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW03-031522 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031522 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031522 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031522 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031522 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8015C  | Diesel Range Organics [C10-C28]       | 0.11       | J        | 0.1      | 0.4     | mg/L  | 0.11       | J        |
| EOS-SW04-031522 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW04-031522 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW04-031522 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW04-031522 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                 | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|-------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW04-031522 | 8260B  | 1,2-Dichlorobenzene     | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,2-Dichloroethane      | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,2-Dichloropropane     | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,3-Dichlorobenzene     | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 1,4-Dichlorobenzene     | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | 2-Hexanone              | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031522 | 8260B  | Acetone                 | 0.0041     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW04-031522 | 8260B  | Benzene                 | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031522 | 8260B  | Bromodichloromethane    | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Bromoform               | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Bromomethane            | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031522 | 8260B  | Carbon disulfide        | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031522 | 8260B  | Carbon tetrachloride    | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Chlorobenzene           | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Chloroethane            | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Chloroform              | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031522 | 8260B  | Chloromethane           | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | cis-1,2-Dichloroethene  | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | cis-1,3-Dichloropropene | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Cyclohexane             | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Dibromochloromethane    | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Dichlorodifluoromethane | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031522 | 8260B  | Ethylbenzene            | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031522 | 8260B  | Isopropylbenzene        | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Methyl acetate          | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031522 | 8260B  | Methyl Ethyl Ketone     | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031522 | 8260B  | methyl isobutyl ketone  | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031522 | 8260B  | Methyl tert-butyl ether | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Methylcyclohexane       | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Methylene Chloride      | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031522 | 8260B  | Styrene                 | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Tetrachloroethene       | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW04-031522 | 8260B  | Toluene                      | 0.00023    | J        | 0.00015  | 0.0005 | mg/L  | 0.00023    | J        |
| EOS-SW04-031522 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031522 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031522 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW04-031522 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | 2-Methylnaphthalene          | 0.000079   | J *1     | 0.000052 | 0.0016 | mg/L  | 0.000079   | J        |
| EOS-SW04-031522 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | 3-Nitroaniline               | 0.0014     | U *-     | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0047     | U        | 0.0047   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW04-031522 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00043    | U        | 0.00043  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00051    | U *1     | 0.00051  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | 4-Nitrophenol                | 0.0059     | U        | 0.0059   | 0.016  | mg/L  | 0.016      | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW04-031522 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW04-031522 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031522 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031522 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031522 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031522 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031522 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW04-031522 | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031522 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Fluorene                    | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Hexachlorobenzene           | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW04-031522 | 8270D  | Hexachlorobutadiene         | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Hexachlorocyclopentadiene   | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031522 | 8270D  | Hexachloroethane            | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031522 | 8270D  | Isophorone                  | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW04-031522 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012 | 0.0004 | mg/L  | 0.00040    | U        |
| EOS-SW04-031522 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031522 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032  | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW04-031522 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031522 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054 | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031522 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8015C  | Diesel Range Organics [C10-C28]       | 0.17       | J        | 0.1     | 0.4    | mg/L  | 0.17       | J        |
| EOS-SW05-031522 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02   | mg/L  | 0.020      | U        |
| EOS-SW05-031522 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4     | 0.8    | mg/L  | 0.80       | U        |
| EOS-SW05-031522 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031522 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031522 | 8260B  | Acetone                               | 0.005      | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW05-031522 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW05-031522 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW05-031522 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW05-031522 | 8260B  | Carbon tetrachloride         | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Chlorobenzene                | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Chloroethane                 | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Chloroform                   | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW05-031522 | 8260B  | Chloromethane                | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | cis-1,2-Dichloroethene       | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | cis-1,3-Dichloropropene      | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Cyclohexane                  | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW05-031522 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW05-031522 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031522 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031522 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031522 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031522 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Toluene                      | 0.00034    | J        | 0.00015 | 0.0005 | mg/L  | 0.00034    | J        |
| EOS-SW05-031522 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW05-031522 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031522 | 8260B  | Xylenes, Total               | 0.00034    | J        | 0.00022 | 0.001  | mg/L  | 0.00034    | J        |
| EOS-SW05-031522 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029 | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021  | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057 | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021  | 0.008  | mg/L  | 0.0080     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031522 | 8270D  | 2,4-Dimethylphenol          | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | 2,4-Dinitrophenol           | 0.0069     | U        | 0.0069   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031522 | 8270D  | 2,4-Dinitrotoluene          | 0.0002     | U        | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | 2,6-Dinitrotoluene          | 0.000059   | U        | 0.000059 | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | 2-Chloronaphthalene         | 0.00019    | U *1     | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | 2-Chlorophenol              | 0.00045    | U        | 0.00045  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | 2-Methylnaphthalene         | 0.000088   | J *1     | 0.000052 | 0.0016  | mg/L  | 0.000088   | J        |
| EOS-SW05-031522 | 8270D  | 2-Methylphenol              | 0.00024    | U *1     | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | 2-Nitroaniline              | 0.001      | U *1     | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | 2-Nitrophenol               | 0.002      | U *1     | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | 3-Nitroaniline              | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031522 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031522 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW05-031522 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031522 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031522 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031522 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031522 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                         | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031522 | 8270D  | Bis(2-chloroethyl)ether         | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | Bis(2-ethylhexyl) phthalate     | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | Butyl benzyl phthalate          | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | Caprolactam                     | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | Carbazole                       | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Chrysene                        | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031522 | 8270D  | Dibenz(a,h)anthracene           | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW05-031522 | 8270D  | Dibenzofuran                    | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | Diethyl phthalate               | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Dimethyl phthalate              | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Di-n-butyl phthalate            | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Di-n-octyl phthalate            | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031522 | 8270D  | Fluoranthene                    | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Fluorene                        | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Hexachlorobenzene               | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW05-031522 | 8270D  | Hexachlorobutadiene             | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Hexachlorocyclopentadiene       | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031522 | 8270D  | Hexachloroethane                | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Indeno[1,2,3-cd]pyrene          | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031522 | 8270D  | Isophorone                      | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | Naphthalene                     | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Nitrobenzene                    | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | N-Nitrosodi-n-propylamine       | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW05-031522 | 8270D  | N-Nitrosodiphenylamine          | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031522 | 8270D  | Pentachlorophenol               | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031522 | 8270D  | Phenanthrene                    | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031522 | 8270D  | Phenol                          | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031522 | 8270D  | Pyrene                          | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8015C  | Diesel Range Organics [C10-C28] | 0.13       | J        | 0.1      | 0.4     | mg/L  | 0.13       | J        |
| EOS-SW06-031522 | 8015C  | Gasoline Range Organics (C6-C9) | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW06-031522 | 8015C  | Oil Range Organics (C20-C34)    | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW06-031522 | 8260B  | 1,1,1-Trichloroethane           | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW06-031522 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031522 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031522 | 8260B  | Acetone                               | 0.0043     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW06-031522 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031522 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031522 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031522 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031522 | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Cyclohexane                           | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Dibromochloromethane                  | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Dichlorodifluoromethane               | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031522 | 8260B  | Ethylbenzene                          | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031522 | 8260B  | Isopropylbenzene                      | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW06-031522 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031522 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031522 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031522 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031522 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Toluene                      | 0.00038    | J        | 0.00015  | 0.0005 | mg/L  | 0.00038    | J        |
| EOS-SW06-031522 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031522 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031522 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW06-031522 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | 2-Methylnaphthalene          | 0.00008    | J *1     | 0.000052 | 0.0016 | mg/L  | 0.00008    | J        |
| EOS-SW06-031522 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004  | mg/L  | 0.0040     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031522 | 8270D  | 3-Nitroaniline              | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031522 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031522 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW06-031522 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031522 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031522 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031522 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031522 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031522 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031522 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW06-031522 | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031522 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Fluorene                              | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW06-031522 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031522 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031522 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW06-031522 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031522 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031522 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031522 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031522 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8015C  | Diesel Range Organics [C10-C28]       | 0.092      | J        | 0.082    | 0.32    | mg/L  | 0.092      | J        |
| EOS-SW07-031522 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW07-031522 | 8015C  | Oil Range Organics (C20-C34)          | 0.32       | U        | 0.32     | 0.64    | mg/L  | 0.64       | U        |
| EOS-SW07-031522 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW07-031522 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW07-031522 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031522 | 8260B  | Acetone                   | 0.0037     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW07-031522 | 8260B  | Benzene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031522 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031522 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031522 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031522 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031522 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031522 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031522 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031522 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031522 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031522 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Toluene                   | 0.00038    | J        | 0.00015 | 0.0005 | mg/L  | 0.00038    | J        |
| EOS-SW07-031522 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Trichloroethene           | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW07-031522 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031522 | 8260B  | Xylenes, Total               | 0.00036    | J        | 0.00022  | 0.001  | mg/L  | 0.00036    | J        |
| EOS-SW07-031522 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031522 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | 2-Methylnaphthalene          | 0.00011    | J *1     | 0.000052 | 0.0016 | mg/L  | 0.00011    | J        |
| EOS-SW07-031522 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | 3-Nitroaniline               | 0.0014     | U *-     | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0047     | U        | 0.0047   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031522 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00043    | U        | 0.00043  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00051    | U *1     | 0.00051  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | 4-Nitrophenol                | 0.0059     | U        | 0.0059   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031522 | 8270D  | Acenaphthene                 | 0.00025    | U *1     | 0.00025  | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | Acenaphthylene               | 0.00021    | U *1     | 0.00021  | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | Acetophenone                 | 0.00053    | U        | 0.00053  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Anthracene                   | 0.00027    | U        | 0.00027  | 0.0008 | mg/L  | 0.00080    | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031522 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW07-031522 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031522 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031522 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031522 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031522 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031522 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW07-031522 | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031522 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | Fluorene                    | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | Hexachlorobenzene           | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031522 | 8270D  | Hexachlorobutadiene         | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Hexachlorocyclopentadiene   | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031522 | 8270D  | Hexachloroethane            | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031522 | 8270D  | Isophorone                  | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031522 | 8270D  | Naphthalene                 | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | Nitrobenzene                | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031522 | 8270D  | N-Nitrosodiphenylamine      | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW07-031522 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032  | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031522 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031522 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054 | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031522 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | J        | 0.1     | 0.4    | mg/L  | 0.10       | J        |
| EOS-SW08-031522 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02   | mg/L  | 0.020      | U        |
| EOS-SW08-031522 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4     | 0.8    | mg/L  | 0.80       | U        |
| EOS-SW08-031522 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031522 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031522 | 8260B  | Acetone                               | 0.0022     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW08-031522 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031522 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW08-031522 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW08-031522 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW08-031522 | 8260B  | Chloromethane                | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | cis-1,2-Dichloroethene       | 0.00041    | U        | 0.00041  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | cis-1,3-Dichloropropene      | 0.00042    | U        | 0.00042  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Cyclohexane                  | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW08-031522 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031522 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031522 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031522 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031522 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031522 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Toluene                      | 0.00021    | J        | 0.00015  | 0.0005 | mg/L  | 0.00021    | J        |
| EOS-SW08-031522 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031522 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031522 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW08-031522 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031522 | 8270D  | 2-Chloronaphthalene         | 0.00019    | U *1     | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | 2-Chlorophenol              | 0.00045    | U        | 0.00045  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | 2-Methylnaphthalene         | 0.000077   | J *1     | 0.000052 | 0.0016  | mg/L  | 0.000077   | J        |
| EOS-SW08-031522 | 8270D  | 2-Methylphenol              | 0.00024    | U *1     | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | 2-Nitroaniline              | 0.001      | U *1     | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | 2-Nitrophenol               | 0.002      | U *1     | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | 3-Nitroaniline              | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031522 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031522 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW08-031522 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031522 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031522 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031522 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031522 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031522 | 8270D  | Carbazole                             | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Chrysene                              | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031522 | 8270D  | Dibenz(a,h)anthracene                 | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW08-031522 | 8270D  | Dibenzofuran                          | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | Diethyl phthalate                     | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Di-n-octyl phthalate                  | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031522 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Fluorene                              | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031522 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031522 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031522 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031522 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031522 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031522 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031522 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031522 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-TB05-031522 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                 | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|-------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-TB05-031522 | 8260B  | 1,2-Dibromoethane       | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,2-Dichlorobenzene     | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,2-Dichloroethane      | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,2-Dichloropropane     | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,3-Dichlorobenzene     | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 1,4-Dichlorobenzene     | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | 2-Hexanone              | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB05-031522 | 8260B  | Acetone                 | 0.0072     | J        | 0.0017  | 0.01   | mg/L  | 0.0072     | J        |
| EOS-TB05-031522 | 8260B  | Benzene                 | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB05-031522 | 8260B  | Bromodichloromethane    | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Bromoform               | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Bromomethane            | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-TB05-031522 | 8260B  | Carbon disulfide        | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-TB05-031522 | 8260B  | Carbon tetrachloride    | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Chlorobenzene           | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Chloroethane            | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Chloroform              | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-TB05-031522 | 8260B  | Chloromethane           | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | cis-1,2-Dichloroethene  | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | cis-1,3-Dichloropropene | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Cyclohexane             | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Dibromochloromethane    | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Dichlorodifluoromethane | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-TB05-031522 | 8260B  | Ethylbenzene            | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB05-031522 | 8260B  | Isopropylbenzene        | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Methyl acetate          | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB05-031522 | 8260B  | Methyl Ethyl Ketone     | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB05-031522 | 8260B  | methyl isobutyl ketone  | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB05-031522 | 8260B  | Methyl tert-butyl ether | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Methylcyclohexane       | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Methylene Chloride      | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB05-031522 | 8260B  | Styrene                 | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-TB05-031522 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Toluene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB05-031522 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Trichloroethene           | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB05-031522 | 8260B  | Trichlorofluoromethane    | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Vinyl chloride            | 0.0002     | U        | 0.0002  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB05-031522 | 8260B  | Xylenes, Total            | 0.00022    | U        | 0.00022 | 0.001  | mg/L  | 0.0010     | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-1

Method: 8260B

| Validation Element                                                                                                                                                                                                             | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                              | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                            | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 3/10/2022, Inst. CMS18                                    | See Ical recalculation sheet below                                                                                         |
|                                                                                                                                                                                                                                | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 3/10/2022, Inst. CMS18                                    | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                                                                | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 268, Batch 646445<br>3/10/2022, CMS18, chloroethane    | Reported chloroethane 5 ug/l RRF: 0.1700<br>$(12511*50)/(735821*5) = 0.1700$                                               |
|                                                                                                                                                                                                                                |                                                                                                                                                                                                            | L4 Page 268, Batch 646445<br>3/10/2022, CMS18, chloroethane    | Reported chloroethane ave. RRF: 0.1841<br>$(0.1891+0.2071+0.17+0.1623+0.1813+0.1813+0.2015+0.1621+0.1999)/9 = 0.1841$      |
|                                                                                                                                                                                                                                | L4 Page 268, Batch 646445<br>3/10/2022, CMS18, chloroethane                                                                                                                                                | Reported chloroethane %RSD = 9.8<br>$(0.018/0.1841)*100 = 9.8$ |                                                                                                                            |
| Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the<br><b>SHOW ALL WORK FOR RECALCULATIONS</b> |                                                                                                                                                                                                            |                                                                |                                                                                                                            |
| Tune                                                                                                                                                                                                                           | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | L4 Pg. 481-482, LIMS ID BFB,<br>3/18/2022 at 08:53             | m/z 96 = 7.3%<br>$(1644/22464)*100 = 7.3%$                                                                                 |
| ICV                                                                                                                                                                                                                            | Check result                                                                                                                                                                                               | L4 Pg. 451, LIMS ID ICV1,<br>3/11/2022 at 09:52                | chloroethane Conc. = 53.9 ug/l<br>$(140268*50)/(706175*0.1841) = 53.9 \text{ ug/l}$                                        |
|                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 448-451, LIMS ID ICV1,<br>3/11/2022 at 09:52            | chloroethane RRF. = 0.1986<br>$(140268*50)/(706175*50) = 0.1986$                                                           |
|                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 448, LIMS ID ICV1,<br>3/11/2022 at 09:52                | chloroethane %D = 7.9%<br>$(\text{abs}(0.1986-0.1841)/0.1841)*100 = 7.9\%$                                                 |
| A CCV applicable to our samples                                                                                                                                                                                                | Check result                                                                                                                                                                                               | L4 Pg. 457-461, CCVIS 500-647675/3,<br>3/18/2022 at 10:02      | chloroethane Conc. = 51.1 ug/l<br>$(122034*50)/(648537*0.1841) = 51.1 \text{ ug/l}$                                        |
|                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 457-461, CCVIS 500-647675/3,<br>3/18/2022 at 10:02      | Chloroethane CCRF = 0.1882<br>$(122034*50)/(648537*50 \text{ ug}) = 0.1882$                                                |
|                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 457-461, CCVIS 500-647675/3,<br>3/18/2022 at 10:02      | Chloroethane %D = 2.2%<br>$(\text{abs}(0.1882-0.1841)/0.1841)*100 = 2.2\%$                                                 |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-1

Method: 8260B

|                                                  |                                                |                                                                          |                                                                                                |
|--------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Method Blank                                     | Check result                                   | NA - no detects                                                          |                                                                                                |
| Surrogate                                        | Recalculate one %R                             | L4 Pg. 226-229, EOS-SW03-031522<br>3/18/2022 at 12:27                    | 1,2-Dichloroethane-d4 %R = 92%<br>(46.1 ug/l/50 ug/l)*100 = 92.2%                              |
| MS                                               | Check result                                   | NA                                                                       |                                                                                                |
|                                                  | Recalculate one %R                             | NA                                                                       |                                                                                                |
| MSD                                              | Check result                                   | NA                                                                       |                                                                                                |
|                                                  | Recalculate one %R                             | NA                                                                       |                                                                                                |
|                                                  | Recalculate one RPD value between MS and MSD   | NA                                                                       |                                                                                                |
| LCS                                              | Check result                                   | L4 Pg. 489-491, Sample: LCS 500-647675/5<br>3/18/2022 at 10:50           | chloroethane Conc. = 0.0492 mg/l<br>(115729*50 ug/l)/(639267*0.1841)/(1000ug/mg) = 0.0492 mg/l |
|                                                  | Recalculate one %R                             | Summary Report Pg. 34,<br>Sample: LCS 500-647675/5<br>3/18/2022 at 10:50 | chloroethane %R = 98.4%<br>(0.0492 mg/l/0.0500 mg/l)*100 = 98.4%                               |
| LCSD                                             | Check result                                   | NA - No LCSD                                                             |                                                                                                |
|                                                  | Recalculate one %R                             | NA - No LCSD                                                             |                                                                                                |
|                                                  | Recalculate one RPD value between LCS and LCSD | NA - No LCSD                                                             |                                                                                                |
| Internal Standards                               | Recalculate one %R                             | NA - %Rs were not provided                                               | IS areas were evaluated and were within acceptable limits.                                     |
|                                                  | Recalculate one delta RT                       | NA - %Rs were not provided                                               | IS RTs were evaluated and were within acceptable limits.                                       |
| Sample Result for EOS-SW03-031522                | Check result                                   | L4 Pg. 225-227,<br>3/18/2022 at 12:27                                    | Acetone Conc. = 0.011 mg/l<br>=(((6605/636197)*50)-0.09263)/0.03901/1000 ug/mg = 0.0109 mg/l   |
| MDL for _____                                    | Check result                                   | NA - MDLs no change for aqueous undiluted samples                        |                                                                                                |
| RL for _____                                     | Check result                                   | NA - RLs no change for aqueous undiluted samples                         |                                                                                                |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                   | NA                                                                       |                                                                                                |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**Report No: J213805-1**

| Initial Calibration  | VOC          |        |            |        |        |        |        |        |
|----------------------|--------------|--------|------------|--------|--------|--------|--------|--------|
| Inst. CMS18          | chloroethane |        | L4 Pg. 268 |        |        |        |        |        |
| Concentration (ug/L) | 1.0          | 2.0    | 5.0        | 20.0   | 50.0   | 100.0  | 150.0  | 200.0  |
| Rf                   | 0.1891       | 0.2071 | 0.1700     | 0.1623 | 0.1813 | 0.2015 | 0.1621 | 0.1999 |

|         |        |   |
|---------|--------|---|
| Std Dev | 0.0180 |   |
| Mean Rf | 0.184  | ✓ |
| %RSD    | 9.78   | ✓ |

Concentration 5 (ug/L) Rf Check

chloroethane area = 12511, 5.0 ug/L L4 Pg. 319  
 Fluorobenzene (internal standard) area = 735821, 50.0 ug/L L4 Pg. 320

$$\frac{12511}{735821} \times \frac{50.0 \text{ ug/L}}{5.0 \text{ ug/L}} = 0.1700 \quad \checkmark$$

Concentration 100 (ug/L) Rf Check

chloroethane area = 281794, 100 ug/L L4 Pg. 334  
 Fluorobenzene (internal standard) area = 699338, 100 ug/L L4 Pg. 335

$$\frac{281794}{699338} \times \frac{100 \text{ ug/L}}{100 \text{ ug/L}} = 0.2015 \quad \checkmark$$

**Report No: J213805-1**

VOC by 8260B - Initial Calibration

3/10/2022

**Instrument CMS18**

**ACETONE**

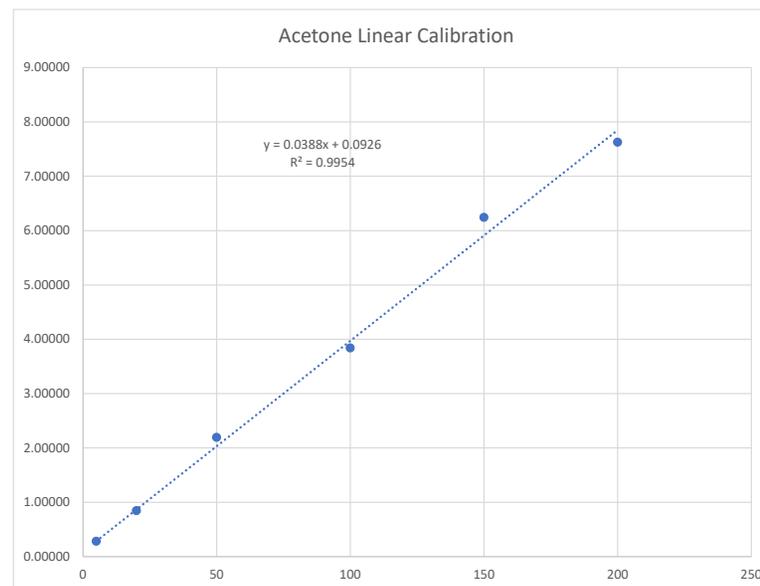
**Weighted Linear Regression (1/A)**

Page(s): 268-362

| C(ug/L) <sub>x</sub> | C(ug/L) <sub>IS</sub> | Conc. Ratio<br>(C <sub>x</sub> /C <sub>IS</sub> ) | A <sub>x</sub> | A <sub>IS</sub> | Resp. Ratio<br>(A <sub>x</sub> /A <sub>IS</sub> ) | Rel Resp. |
|----------------------|-----------------------|---------------------------------------------------|----------------|-----------------|---------------------------------------------------|-----------|
| 5                    | 50                    | 0.1000                                            | 4171           | 735821          | 0.00567                                           | 0.28342   |
| 20                   | 50                    | 0.4000                                            | 12331          | 728509          | 0.01693                                           | 0.84632   |
| 50                   | 50                    | 1.0000                                            | 28478          | 648278          | 0.04393                                           | 2.19643   |
| 100                  | 50                    | 2.0000                                            | 53709          | 699338          | 0.07680                                           | 3.83999   |
| 150                  | 50                    | 3.0000                                            | 83079          | 665164          | 0.12490                                           | 6.24500   |
| 200                  | 50                    | 4.0000                                            | 106631         | 699086          | 0.15253                                           | 7.62646   |

Slope: 0.0388  
 Intercept: 0.0926  
 r: 0.99770  
 r<sup>2</sup>: 0.99540

6103.00000  
 876973.00000



\*(X) = target analyte

\*(IS) = internal standard

ICV Recalc

L4 Pg. 451-452

Conc. = (((Target Area/IS Area)\*IS Conc.)-intercept)/slope

| RespX | RespIS | Conc.IS | On Column Amt (ugl) |
|-------|--------|---------|---------------------|
| 28401 | 706175 | 50      | 49.1739             |
| 6605  | 636197 | 50      | 10.9323             |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-1

Method: 8270D

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                            | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 3/10/2022, Inst. CMS18                                  | See Ical recalculation sheet below                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 2/22/2022, Inst. CMS01                                  | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 594, Batch 643802<br>2/22/2022, CMS01, phenol        | Reported phenol 4.0 ug/l RRF: 1.3003<br>$(627844 \times 3.2 \text{ ug/ml}) / (386287 \times 4 \text{ ug/ml}) = 1.3003$              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                            | L4 Page 594, Batch 643802<br>2/22/2022, CMS01, phenol        | Reported phenol ave. RRF: 1.2463<br>$(1.1690 + 1.1276 + 0.9782 + 1.1812 + 1.3003 + 1.3340 + 1.4378 + 1.3587 + 1.3302) / 9 = 1.2463$ |
| L4 Page 594, Batch 643802<br>2/22/2022, CMS01, phenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reported phenol %RSD = 11.5%<br>$(0.1428 / 1.2463) \times 100 = 11.5\%$                                                                                                                                    |                                                              |                                                                                                                                     |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="center"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                              |                                                                                                                                     |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm DFTPP Percent Relative Abundance                                                                                                                                                                   | L4 Pg. 968, LIMS ID DFTPP,<br>3/18/2022 at 09:10             | m/z 199 = 6.8%<br>$(38088 / 560448) \times 100 = 6.8\%$                                                                             |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Check result                                                                                                                                                                                               | L4 Pg. 904, LIMS ID icv,<br>2/22/2022 at 15:25               | phenol Conc. = 7.48 ug/ml<br>$(934977 \times 3.2 \text{ ug/ml}) / (321083 \times 1.2463) = 7.48 \text{ ug/ml}$                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 901, Samp ID ICV 500-643802/13,<br>2/22/2022 at 15:25 | phenol RRF. = 1.331<br>$(934977 \times 3.2 \text{ ug/ml}) / (321083 \times 7.0 \text{ ug/ml}) = 1.331$                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 901, Samp ID ICV 500-643802/13,<br>2/22/2022 at 15:25 | phenol %D = 6.8%<br>$(\text{abs}(1.331 - 1.2463) / 1.2463) \times 100 = 6.8\%$                                                      |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Check result                                                                                                                                                                                               | L4 Pg. 931-938, CCVIS 500-647713/2,<br>3/18/2022 at 09:34    | phenol Conc. = 8.73 ug/ml<br>$(1143879 \times 3.2 \text{ ug/ml}) / (336287 \times 1.2463) = 8.73 \text{ ug/ml}$                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 931-938, CCVIS 500-647713/2,<br>3/18/2022 at 09:34    | phenol CCRF = 1.555<br>$(1143879 \times 3.2 \text{ ug/ml}) / (336287 \times 7.0 \text{ ug/ml}) = 1.555$                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 931-938, CCVIS 500-647713/2,<br>3/18/2022 at 09:34    | phenol %D = 24.8%<br>$(\text{abs}(1.555 - 1.2463) / 1.2463) \times 100 = 24.8\%$                                                    |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Check result                                                                                                                                                                                               | NA - no detects                                              |                                                                                                                                     |
| Surrogate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Recalculate one %R                                                                                                                                                                                         | L4 Pg. 532-533, EOS-SW04-031522<br>3/18/2022 at 13:11        | Phenol-d5 %R = 36%<br>$(3.64 \text{ ug/ml} / 10 \text{ ug/ml}) \times 100 = 36.4\%$                                                 |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-1

Method: 8270D

|                                                  |                                                |                                                                             |                                                                                                                                         |
|--------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| MS                                               | Check result                                   | NA                                                                          |                                                                                                                                         |
|                                                  | Recalculate one %R                             | NA                                                                          |                                                                                                                                         |
| MSD                                              | Check result                                   | NA                                                                          |                                                                                                                                         |
|                                                  | Recalculate one %R                             | NA                                                                          |                                                                                                                                         |
|                                                  | Recalculate one RPD value between MS and MSD   | NA                                                                          | 0.02236                                                                                                                                 |
| LCS                                              | Check result                                   | L4 Pg. 984-988, Sample: LCS 500-647588/2-A<br>3/18/2022 at 11:59            | phenol Conc. = 0.0224 mg/l<br>(739826*3.2 ug/ml)/(339547*1.2463) = 5.59 ug/ml<br>= (5.59 ug/ml/250 ml) = 0.0226 mg/l                    |
|                                                  | Recalculate one %R                             | Summary Report Pg. 37,<br>Sample: LCS 500-647588/2-A<br>3/18/2022 at 11:59  | phenol %R = 70%<br>(0.0224 mg/l/0.032 mg/l)*100 = 70%                                                                                   |
| LCSD                                             | Check result                                   | L4 Pg. 993-998 Sample: LCSD 500-647588/3-A<br>3/18/2022 at 12:23            | phenol Conc. = 0.0262 mg/l<br>(847425*3.2 ug/ml)/(332294*1.2463) = 6.55 ug/ml<br>= (6.55 ug/ml/250 ml) = 0.0262 mg/l                    |
|                                                  | Recalculate one %R                             | Summary Report Pg. 37,<br>Sample: LCSD 500-647588/3-A<br>3/18/2022 at 12:23 | phenol %R = 82%<br>(0.0262 mg/l/0.032 mg/l)*100 = 82%                                                                                   |
|                                                  | Recalculate one RPD value between LCS and LCSD | Summary Report Pg. 37,<br>Sample: LCSD 500-647588/3-A<br>3/18/2022 at 12:23 | phenol RPD = 16%<br>abs(0.0262 mg/l-0.0224 mg/l)/((0.0262 mg/l+0.0224 mg/l)/2)*100 = 16%                                                |
| Internal Standards                               | Recalculate one %R                             | NA - %Rs were not provided                                                  | IS areas were evaluated and were within acceptable limits.                                                                              |
|                                                  | Recalculate one delta RT                       | NA - %Rs were not provided                                                  | IS RTs were evaluated and were within acceptable limits.                                                                                |
| Sample Result for EOS-SW04-031522                | Check result                                   | L4 Pg. 530-535,<br>3/18/2022 at 13:11                                       | 2-methylnaphthalene Conc. = 0.000079 mg/l<br>(4268*3.2 ug/ml)/(1035083*0.6687) = 0.01973 ug/ml<br>= (6.55 ug/ml/250 ml) = 0.000079 mg/l |
| MDL for _____                                    | Check result                                   | NA - MDLs no change for aqueous undiluted samples                           |                                                                                                                                         |
| RL for _____                                     | Check result                                   | NA - RLs no change for aqueous undiluted samples                            |                                                                                                                                         |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                   | NA                                                                          |                                                                                                                                         |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**J213805-1**

Initial Calibration 2/22/2022

SVOC

Inst. CMS01

phenol

pg. 594

Concentration (ug/mL)

0.1

0.2

1.0

2.0

4.0

8.0

10.0

12.0

14.0

Rf

1.1690

1.1276

0.9782

1.1812

1.3003

1.3340

1.4378

1.3587

1.3302

Std Dev

0.1428

Mean Rf

1.2463



%RSD

11.5



Concentration 0.2 (ug/mL) Rf Check

phenol area = 15016, 0.2 ug/mL

pg. 600

1,4-dichlorobenzene-d4 (internal standard) area = 213060, 3.2 ug/mL (pg. 697)

15016

x

3.2 ug/mL

=

1.1276



---

213060

x

0.2 ug/mL

Concentration 8.0 (ug/mL) Rf Check

phenol area = 1431826, 8.0 ug/mL

pg. 600

1,4-dichlorobenzene-d4 (internal standard) area = 429340, 3.2 ug/mL (pg. 613)

1431826

x

3.2 ug/mL

=

1.334



---

429340

x

8.0 ug/mL

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

**Data Package Number: J213805-1**

**Method: 8015C**

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                    | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 4/10/2021, INST13-14                            | See attached GRO Ical recalculation                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 4/10/2021, INST13-14                            | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 1037-1090,<br>Ical 4/10/2021, INST13-14, GRO | See attached GRO Ical recalculation                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 1037-1090,<br>Ical 4/10/2021, INST13-14, GRO | See attached GRO Ical recalculation                                                                                        |
| L4 Page 1037-1090,<br>Ical 4/10/2021, INST13-14, GRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                            | See attached GRO Ical recalculation                  |                                                                                                                            |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                      |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB/DFTPP Percent Relative Abundance                                                                                                                                                               | NA                                                   |                                                                                                                            |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

**Data Package Number: J213805-1**

**Method: 8015C**

| Validation Element              | Objective                                    | Sample ID, Run Date, and Run Time                         | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)        |
|---------------------------------|----------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ICV                             | Check result                                 | L4 Pg. 1090, Lims ID: ICV, 4/10/2021 at 18:59             | GRO Conc. = 363 ug/l<br>$(20672016-495016.43)/55585.941 = 363 \text{ ug/l}$                                                       |
|                                 | Recalculate one RRF                          | NA                                                        | RFs not applicable                                                                                                                |
|                                 | Recalculate one %D                           | L4 Pg. 1088, Lims ID: ICV, 4/10/2021 at 18:59             | GRO %D = -10.1%<br>$(363 \text{ ug/l} - 404 \text{ ug/l})/404 \text{ ug/l} * 100 = -10.1\%$                                       |
| A CCV applicable to our samples | Check result                                 | L4 Pg. 1098, Sample: CCV 500-647601/2 03/17/2022 at 21:49 | GRO Conc. = 373 ug/l<br>$(21233716-495016.43)/55585.941 = 373 \text{ ug/l}$                                                       |
|                                 | Recalculate one RRF                          | NA                                                        | RFs not applicable                                                                                                                |
|                                 | Recalculate one %D                           | L4 Pg. 1096, Sample: CCV 500-647601/2 03/17/2022 at 21:49 | GRO %D = -6.7%<br>$(373 \text{ ug/l} - 400 \text{ ug/l})/400 \text{ ug/l} * 100 = -6.7\%$                                         |
| Method Blank                    | Check result                                 | L4 Pg. 1112, Sample: MB 500-647601/3 03/17/2022 at 22:25  | GRO not detected                                                                                                                  |
| Surrogate                       | Recalculate one %R                           | L4 Pg. 1013, Sample: EOS-SW03-031522 03/17/2022 at 23:36  | 4-Bromofluorobenzene %R = 101%<br>$(20.2 \text{ ug/l}/20 \text{ ug/l}) * 100 = 101\%$                                             |
| MS                              | Check result                                 | L4 Pg. 1121, Lab ID 500-213805-7 MS 03/18/2022 at 03:10   | GRO Conc. = 0.35 mg/l<br>$((19936887-495016.43)/55585.941)/1000 \text{ ug/mg} = 0.35 \text{ mg/l}$                                |
|                                 | Recalculate one %R                           | L2 Pg. 40, Lab ID 500-213805-7 MS 03/18/2022 at 03:10     | GRO %R = 87%<br>$(0.350 \text{ mg/l}/0.403 \text{ mg/l}) * 100 = 87\%$                                                            |
| MSD                             | Check result                                 | L4 Pg. 1126, Lab ID 500-213805-7 MSD 03/18/2022 at 03:46  | GRO Conc. = 0.36 mg/l<br>$((20514302-495016.43)/55585.941)/1000 \text{ ug/mg} = 0.36 \text{ mg/l}$                                |
|                                 | Recalculate one %R                           | L2 Pg. 41, Lab ID 500-213805-7 MSD 03/18/2022 at 03:46    | GRO %R = 89%<br>$(0.360 \text{ mg/l}/0.403 \text{ mg/l}) * 100 = 89\%$                                                            |
|                                 | Recalculate one RPD value between MS and MSD | L2 Pg. 41, Lab ID 500-213805-7 MSD 03/18/2022 at 03:46    | GRO RPD = 3%<br>$(\text{abs}(0.35 \text{ mg/l} - 0.36 \text{ mg/l}) / ((0.35 \text{ mg/l} + 0.36 \text{ mg/l}) / 2)) * 100 = 3\%$ |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-1

Method: 8015C

| Validation Element                                     | Objective                                      | Sample ID, Run Date, and Run Time                           | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|--------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| LCS                                                    | Check result                                   | L4 Pg. 1116, Lab ID LCS 500-647601/4<br>03/17/2022 at 23:01 | GRO Conc. = 0.354 mg/l<br>((20178934-495016.43)/55585.941)/1000 ug/mg = 0.354 mg/l                                         |
|                                                        | Recalculate one %R                             | L2 Pg. 40, Lab ID LCS 500-647601/4<br>03/17/2022 at 23:01   | GRO %R = 88%<br>(0.354 mg/l/0.403 mg/l)*100 = 88%                                                                          |
| LCSD                                                   | Check result                                   | NA - No LCSD                                                |                                                                                                                            |
|                                                        | Recalculate one %R                             | NA - No LCSD                                                |                                                                                                                            |
|                                                        | Recalculate one RPD value between LCS and LCSD | NA - No LCSD                                                |                                                                                                                            |
| Internal Standards                                     | Recalculate one %R                             | NA                                                          |                                                                                                                            |
|                                                        | Recalculate one delta RT                       | NA                                                          |                                                                                                                            |
| Sample Result for EOS-SW03-031522                      | Check result                                   | L4 Pg. 1143, Lab ID 500-213805-2<br>03/18/2022 14:12        | DRO Conc. = 0.10 mg/l<br>((390822399-347436320)/4279389.2)*(2.5 ml/250 ml) = 0.10 mg/l                                     |
| MDL for _____                                          | Check result                                   | NA - MDLs no change for aqueous undiluted samples           |                                                                                                                            |
| RL for _____                                           | Check result                                   | NA - RLs no change for aqueous undiluted samples            |                                                                                                                            |
| Convert µg/m <sup>3</sup> to ppbV (air only) for _____ | Check result                                   | NA                                                          |                                                                                                                            |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added)} x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**Report No: J213805-1**

GRO by 8015C - Initial Calibration

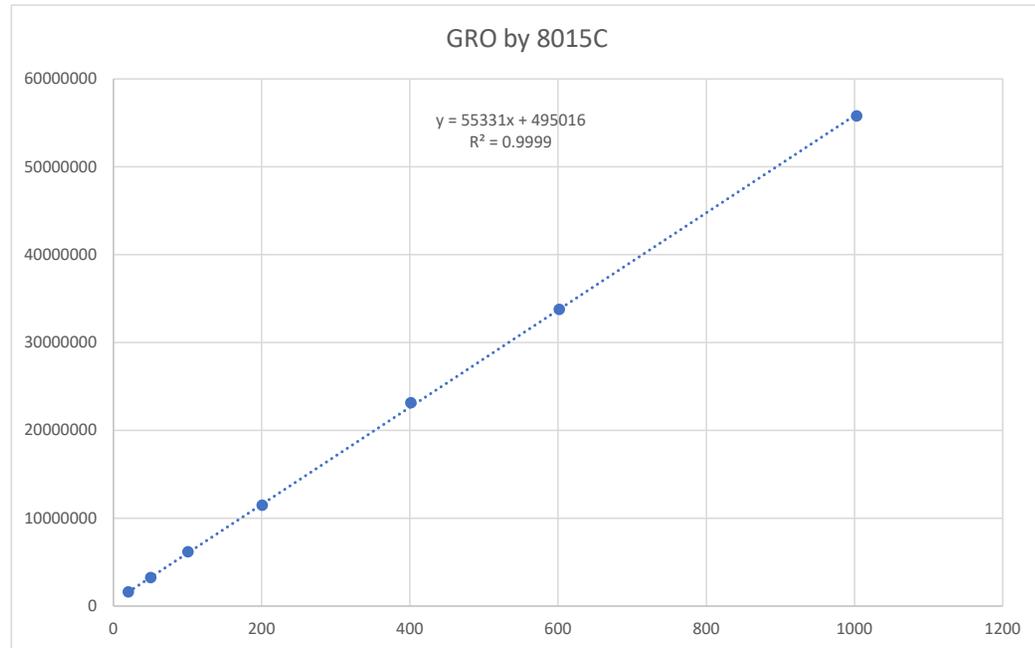
4/10/2021

**Inst. INST13-14**

**Linear Calibration Recalculation**

Page(s): 1037 to 1090

| C(ug/L) | Resp.    | Resp. Ratio<br>(Resp <sub>x</sub> /C <sub>x</sub> ) |
|---------|----------|-----------------------------------------------------|
| 20.052  | 1611906  | 80386.29563                                         |
| 50.13   | 3244891  | 64729.52324                                         |
| 100.26  | 6178962  | 61629.38360                                         |
| 200.52  | 11499488 | 57348.33433                                         |
| 401.04  | 23149413 | 57723.45153                                         |
| 601.56  | 33783070 | 56159.10300                                         |
| 1002.6  | 55788408 | 55643.73429                                         |



|           |             |
|-----------|-------------|
| Slope     | 55331.0000  |
| intercept | 495016.4300 |
| R         | 0.99995     |
| R-squared | 0.99990     |

ICV Recalculation Pg. 1090

|           |            |           |             |
|-----------|------------|-----------|-------------|
| GRO Resp. | Slope      | Intercept | Amount ug/l |
| 20672016  | 55331.0000 | 495016.43 | 364.7       |

$(20672016 - 495016.43) / 55585.941$

\*(X) = target analyte

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                                             |                                                                                                                                                                                                               |                                         |
|-------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505                            | <b>TO/TOLIN No.</b>                                                                                                                                                                                           | 68HE0519F0071/0001DC102                 |
| <b>Document Tracking No.</b>              | 1154b                                                       | <b>Technical Reviewer (signature and date)</b>                                                                                                                                                                | <i>Harry N. Ellis III</i> 20 April 2022 |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/11/2022                                | <b>Laboratory</b>                                                                                                                                                                                             | Eurofins – Chicago, IL                  |
| <b>Laboratory Report No.</b>              | 500-213805-2                                                | <b>Analyses</b><br>Volatile organic compounds by SW-846 method 8260B, semi volatile organic compounds by SW-846 method 8270D, and gasoline range, diesel range, and oil range organics by SW-846 method 8015C |                                         |
| <b>Samples and Matrix</b>                 | Seven surface water samples (including one field duplicate) |                                                                                                                                                                                                               |                                         |
| <b>Collection Date(s)</b>                 | March 16, 2022                                              |                                                                                                                                                                                                               |                                         |
| <b>Field Duplicate Pairs</b>              | EOS-SW07-031622 and EOS-SW07-031622-D                       |                                                                                                                                                                                                               |                                         |
| <b>Field QC Blanks</b>                    | EOS-TB05-031522 (Reported in 500-213805-1)                  |                                                                                                                                                                                                               |                                         |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No rejection of data was required for this data package. The results may be used as qualified based on the findings of this report.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Instrument Performance Checks:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The pentachlorophenol and benzidine peak tailing factors were above acceptable limits in the DFTPP tuning standard used for SVOC analysis. The pentachlorophenol and benzidine peak tailing factors were within acceptance limits in the subsequent continuing calibration verification (CCV) standard that was analyzed prior to the project samples. This indicated that the system was in control and no further action was necessary. |

**Initial Calibration:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Continuing Calibration:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Calibration Verification:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Method blanks:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Field blanks:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | Acetone was detected in trip blank sample EOS-TB05-031522 at a concentration of 0.0072 milligrams per liter (mg/L). This trip blank was reported in SDG 500-213805-1, but was shipped in the same cooler as the samples from this SDG. Therefore, the positive acetone results above the method detection limit (MDL) and below the reporting limit (RL) in EOS-SW03-031622, EOS-SW04-031622, EOS-SW05-031622, EOS-SW06-031622, EOS-SW07-031622, EOS-SW07-031622-D, and EOS-SW08-031622 were qualified as not-detected (flagged U), and the result was raised to the value of the RL. |

**Interference Check Samples (ICS) (ICP metals only):**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Surrogates and labeled compounds:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**MS/MSDs:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Post digestion spikes:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Serial dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Laboratory duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Field duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**LCSs/LCSDs:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | <p>The laboratory control sample (LCS) percent recovery (%R) for 3-nitroaniline was below acceptable limits. However, the average %R for 3-nitroaniline in the LCS/laboratory control sample duplicate (LCSD) pair was within acceptable limits. As a result, no qualifications were necessary.</p> <p>The LCS/LCSD relative percent difference (RPD) was outside of acceptable limits for the following analytes:</p> <ul style="list-style-type: none"> <li>1,1'-biphenyl, 2,2'-oxybis[1-chloropropane], 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2-chloronaphthalene, 2-methylnaphthalene, 2-methylphenol, 2-nitroaniline, 2-nitrophenol, 4-chlorophenyl phenyl ether, acenaphthene, acenaphthylene, bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, dibenzofuran, fluorene, hexachlorocyclopentadiene, naphthalene, nitrobenzene, and n-nitroso-diphenylamine.</li> </ul> <p>Therefore, the 2-methylnaphthalene positive results in EOS-SW04-031622, EOS-SW05-031622, EOS-SW06-031622, EOS-SW07-031622, EOS-SW07-031622-D, and EOS-SW08-031622 were qualified as estimated (flagged J). All other analytes with high LCS/LCSD RPDs were not detected in the project samples; therefore, additional qualifications were not necessary.</p> |

**Sample dilutions:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Re-extraction and reanalysis:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Second column confirmation (GC and HPLC analyses only):**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Internal Standards:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Target analyte identification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Analyte quantitation and MDLs/RLs:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                                                                   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y                  | Concentrations between the MDL and RL were qualified as estimated (flagged J) by the laboratory. Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Other [specify]:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



## DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL | Units       | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|----|-------------|------------|----------|
| EOS-SW03-031622 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        | 0.1     |    | 0.4 mg/L    | 0.40       | U        |
| EOS-SW03-031622 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    |    | 0.02 mg/L   | 0.020      | U        |
| EOS-SW03-031622 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4     |    | 0.8 mg/L    | 0.80       | U        |
| EOS-SW03-031622 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   |    | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW03-031622 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  |    | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW03-031622 | 8260B  | Acetone                               | 0.0031     | J        | 0.0017  |    | 0.01 mg/L   | 0.010      | U        |
| EOS-SW03-031622 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 |    | 0.0005 mg/L | 0.00050    | U        |
| EOS-SW03-031622 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  |    | 0.003 mg/L  | 0.0030     | U        |
| EOS-SW03-031622 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 |    | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW03-031622 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 |    | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW03-031622 | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Cyclohexane                           | 0.00049    | U        | 0.00049 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Dibromochloromethane                  | 0.00049    | U        | 0.00049 |    | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Dichlorodifluoromethane               | 0.00067    | U        | 0.00067 |    | 0.003 mg/L  | 0.0030     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW03-031622 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW03-031622 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031622 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031622 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031622 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031622 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW03-031622 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW03-031622 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031622 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW03-031622 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | 2-Methylnaphthalene          | 0.000052   | U *1     | 0.000052 | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004  | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031622 | 8270D  | 3-Nitroaniline              | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031622 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031622 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW03-031622 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031622 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031622 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031622 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031622 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031622 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW03-031622 | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW03-031622 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | Fluorene                    | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031622 | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW03-031622 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031622 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031622 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW03-031622 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031622 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031622 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW03-031622 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031622 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8015C  | Diesel Range Organics [C10-C28]       | 0.13       | J        | 0.1      | 0.4     | mg/L  | 0.13       | J        |
| EOS-SW04-031622 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW04-031622 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW04-031622 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW04-031622 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW04-031622 | 8260B  | Acetone                               | 0.0025     | J        | 0.0017   | 0.01    | mg/L  | 0.010      | U        |
| EOS-SW04-031622 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015  | 0.0005  | mg/L  | 0.00050    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW04-031622 | 8260B  | Bromodichloromethane         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Bromoform                    | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Bromomethane                 | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031622 | 8260B  | Carbon disulfide             | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031622 | 8260B  | Carbon tetrachloride         | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Chlorobenzene                | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Chloroethane                 | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Chloroform                   | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031622 | 8260B  | Chloromethane                | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | cis-1,2-Dichloroethene       | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | cis-1,3-Dichloropropene      | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Cyclohexane                  | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031622 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031622 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031622 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031622 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031622 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031622 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031622 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031622 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031622 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029 | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021  | 0.008  | mg/L  | 0.0080     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW04-031622 | 8270D  | 2,4,6-Trichlorophenol       | 0.00057    | U *1     | 0.00057  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | 2,4-Dichlorophenol          | 0.0021     | U *1     | 0.0021   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | 2,4-Dimethylphenol          | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | 2,4-Dinitrophenol           | 0.0069     | U        | 0.0069   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031622 | 8270D  | 2,4-Dinitrotoluene          | 0.0002     | U        | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | 2,6-Dinitrotoluene          | 0.000059   | U        | 0.000059 | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | 2-Chloronaphthalene         | 0.00019    | U *1     | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | 2-Chlorophenol              | 0.00045    | U        | 0.00045  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | 2-Methylnaphthalene         | 0.000054   | J *1     | 0.000052 | 0.0016  | mg/L  | 0.000054   | J        |
| EOS-SW04-031622 | 8270D  | 2-Methylphenol              | 0.00024    | U *1     | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | 2-Nitroaniline              | 0.001      | U *1     | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | 2-Nitrophenol               | 0.002      | U *1     | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | 3-Nitroaniline              | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031622 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031622 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW04-031622 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031622 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031622 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031622 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031622 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW04-031622 | 8270D  | Bis(2-chloroethyl)ether               | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | Bis(2-ethylhexyl) phthalate           | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | Butyl benzyl phthalate                | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | Caprolactam                           | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | Carbazole                             | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Chrysene                              | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031622 | 8270D  | Dibenz(a,h)anthracene                 | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW04-031622 | 8270D  | Dibenzofuran                          | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | Diethyl phthalate                     | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Di-n-octyl phthalate                  | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031622 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Fluorene                              | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW04-031622 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031622 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031622 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW04-031622 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031622 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031622 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031622 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031622 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8015C  | Diesel Range Organics [C10-C28]       | 0.12       | J        | 0.1      | 0.4     | mg/L  | 0.12       | J        |
| EOS-SW05-031622 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW05-031622 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW05-031622 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW05-031622 | 8260B  | 1,1,2-Trichloroethane       | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,1-Dichloroethane          | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,1-Dichloroethene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,2,4-Trichlorobenzene      | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,2-Dibromo-3-Chloropropane | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031622 | 8260B  | 1,2-Dibromoethane           | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,2-Dichlorobenzene         | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,2-Dichloroethane          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,2-Dichloropropane         | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,3-Dichlorobenzene         | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 1,4-Dichlorobenzene         | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | 2-Hexanone                  | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031622 | 8260B  | Acetone                     | 0.0049     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW05-031622 | 8260B  | Benzene                     | 0.0002     | J        | 0.00015 | 0.0005 | mg/L  | 0.00020    | J        |
| EOS-SW05-031622 | 8260B  | Bromodichloromethane        | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Bromoform                   | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Bromomethane                | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW05-031622 | 8260B  | Carbon disulfide            | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW05-031622 | 8260B  | Carbon tetrachloride        | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Chlorobenzene               | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Chloroethane                | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Chloroform                  | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW05-031622 | 8260B  | Chloromethane               | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | cis-1,2-Dichloroethene      | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | cis-1,3-Dichloropropene     | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Cyclohexane                 | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Dibromochloromethane        | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Dichlorodifluoromethane     | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW05-031622 | 8260B  | Ethylbenzene                | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW05-031622 | 8260B  | Isopropylbenzene            | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Methyl acetate              | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031622 | 8260B  | Methyl Ethyl Ketone         | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031622 | 8260B  | methyl isobutyl ketone      | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031622 | 8260B  | Methyl tert-butyl ether     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW05-031622 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031622 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Toluene                      | 0.00062    |          | 0.00015  | 0.0005 | mg/L  | 0.00062    |          |
| EOS-SW05-031622 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW05-031622 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031622 | 8260B  | Xylenes, Total               | 0.00098    | J        | 0.00022  | 0.001  | mg/L  | 0.00098    | J        |
| EOS-SW05-031622 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW05-031622 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | 2-Methylnaphthalene          | 0.0001     | J *1     | 0.000052 | 0.0016 | mg/L  | 0.00010    | J        |
| EOS-SW05-031622 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | 3-Nitroaniline               | 0.0014     | U *-     | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0047     | U        | 0.0047   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW05-031622 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00043    | U        | 0.00043  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00051    | U *1     | 0.00051  | 0.004  | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
 EUROFINs REPORT NO. J213805-2

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031622 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031622 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW05-031622 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031622 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031622 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031622 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031622 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031622 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW05-031622 | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW05-031622 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Fluorene                    | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Hexachlorobenzene           | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW05-031622 | 8270D  | Hexachlorobutadiene         | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Hexachlorocyclopentadiene   | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031622 | 8270D  | Hexachloroethane            | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031622 | 8270D  | Isophorone                  | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW05-031622 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012 | 0.0004 | mg/L  | 0.00040    | U        |
| EOS-SW05-031622 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW05-031622 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032  | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW05-031622 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW05-031622 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054 | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW05-031622 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        | 0.1     | 0.4    | mg/L  | 0.40       | U        |
| EOS-SW06-031622 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02   | mg/L  | 0.020      | U        |
| EOS-SW06-031622 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4     | 0.8    | mg/L  | 0.80       | U        |
| EOS-SW06-031622 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031622 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031622 | 8260B  | Acetone                               | 0.0054     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW06-031622 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031622 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031622 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031622 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW06-031622 | 8260B  | Chloroethane                 | 0.00051    | U        | 0.00051  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Chloroform                   | 0.00037    | U        | 0.00037  | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031622 | 8260B  | Chloromethane                | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | cis-1,2-Dichloroethene       | 0.00041    | U        | 0.00041  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | cis-1,3-Dichloropropene      | 0.00042    | U        | 0.00042  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Cyclohexane                  | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031622 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031622 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031622 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031622 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031622 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031622 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Toluene                      | 0.00053    |          | 0.00015  | 0.0005 | mg/L  | 0.00053    |          |
| EOS-SW06-031622 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031622 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031622 | 8260B  | Xylenes, Total               | 0.00049    | J        | 0.00022  | 0.001  | mg/L  | 0.00049    | J        |
| EOS-SW06-031622 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW06-031622 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031622 | 8270D  | 2-Chloronaphthalene         | 0.00019    | U *1     | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | 2-Chlorophenol              | 0.00045    | U        | 0.00045  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | 2-Methylnaphthalene         | 0.000099   | J *1     | 0.000052 | 0.0016  | mg/L  | 0.000099   | J        |
| EOS-SW06-031622 | 8270D  | 2-Methylphenol              | 0.00024    | U *1     | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | 2-Nitroaniline              | 0.001      | U *1     | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | 2-Nitrophenol               | 0.002      | U *1     | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | 3-Nitroaniline              | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031622 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031622 | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW06-031622 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031622 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031622 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031622 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031622 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031622 | 8270D  | Dibenz(a,h)anthracene                 | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW06-031622 | 8270D  | Dibenzofuran                          | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | Diethyl phthalate                     | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Di-n-octyl phthalate                  | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031622 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Fluorene                              | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW06-031622 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031622 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031622 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW06-031622 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031622 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031622 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031622 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031622 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8015C  | Diesel Range Organics [C10-C28]       | 0.11       | J        | 0.1      | 0.4     | mg/L  | 0.11       | J        |
| EOS-SW07-031622 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW07-031622 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW07-031622 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW07-031622 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                  | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|--------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW07-031622 | 8260B  | 1,2-Dichlorobenzene      | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,2-Dichloroethane       | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,2-Dichloropropane      | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,3-Dichlorobenzene      | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 1,4-Dichlorobenzene      | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | 2-Hexanone               | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622 | 8260B  | Acetone                  | 0.0062     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW07-031622 | 8260B  | Benzene                  | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622 | 8260B  | Bromodichloromethane     | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Bromoform                | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Bromomethane             | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031622 | 8260B  | Carbon disulfide         | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031622 | 8260B  | Carbon tetrachloride     | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Chlorobenzene            | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Chloroethane             | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Chloroform               | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031622 | 8260B  | Chloromethane            | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | cis-1,2-Dichloroethene   | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | cis-1,3-Dichloropropene  | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Cyclohexane              | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Dibromochloromethane     | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Dichlorodifluoromethane  | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031622 | 8260B  | Ethylbenzene             | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622 | 8260B  | Isopropylbenzene         | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Methyl acetate           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622 | 8260B  | Methyl Ethyl Ketone      | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622 | 8260B  | methyl isobutyl ketone   | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622 | 8260B  | Methyl tert-butyl ether  | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Methylcyclohexane        | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Methylene Chloride       | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622 | 8260B  | Styrene                  | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Tetrachloroethene        | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Toluene                  | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622 | 8260B  | trans-1,2-Dichloroethene | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW07-031622 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031622 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | 2-Methylnaphthalene          | 0.000067   | J *1     | 0.000052 | 0.0016 | mg/L  | 0.000067   | J        |
| EOS-SW07-031622 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | 3-Nitroaniline               | 0.0014     | U *-     | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0047     | U        | 0.0047   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031622 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00043    | U        | 0.00043  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00051    | U *1     | 0.00051  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | 4-Nitrophenol                | 0.0059     | U        | 0.0059   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031622 | 8270D  | Acenaphthene                 | 0.00025    | U *1     | 0.00025  | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | Acenaphthylene               | 0.00021    | U *1     | 0.00021  | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | Acetophenone                 | 0.00053    | U        | 0.00053  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Anthracene                   | 0.00027    | U        | 0.00027  | 0.0008 | mg/L  | 0.00080    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031622 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW07-031622 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW07-031622 | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | Fluorene                    | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | Hexachlorobenzene           | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031622 | 8270D  | Hexachlorobutadiene         | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Hexachlorocyclopentadiene   | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031622 | 8270D  | Hexachloroethane            | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622 | 8270D  | Isophorone                  | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | Naphthalene                 | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | Nitrobenzene                | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031622 | 8270D  | N-Nitrosodiphenylamine      | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622 | 8270D  | Pentachlorophenol           | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031622 | 8270D  | Phenanthrene                | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID         | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-------------------|--------|---------------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW07-031622   | 8270D  | Phenol                                | 0.00054    | U        | 0.00054 | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622   | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        | 0.1     | 0.4    | mg/L  | 0.40       | U        |
| EOS-SW07-031622-D | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02   | mg/L  | 0.020      | U        |
| EOS-SW07-031622-D | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4     | 0.8    | mg/L  | 0.80       | U        |
| EOS-SW07-031622-D | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622-D | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622-D | 8260B  | Acetone                               | 0.0039     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW07-031622-D | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622-D | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031622-D | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031622-D | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031622-D | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Cyclohexane                           | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID         | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-------------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW07-031622-D | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031622-D | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622-D | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622-D | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622-D | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622-D | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031622-D | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622-D | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031622-D | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031622-D | 8270D  | 1,1'-Biphenyl                | 0.00029    | U *1     | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031622-D | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | 2-Methylnaphthalene          | 0.00006    | J *1     | 0.000052 | 0.0016 | mg/L  | 0.000060   | J        |
| EOS-SW07-031622-D | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID         | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-------------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031622-D | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | 3-Nitroaniline              | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031622-D | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031622-D | 8270D  | Acenaphthene                | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Acenaphthylene              | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW07-031622-D | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622-D | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622-D | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622-D | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622-D | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031622-D | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622-D | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW07-031622-D | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID         | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-------------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031622-D | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Fluorene                              | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031622-D | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031622-D | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031622-D | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | Naphthalene                           | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Nitrobenzene                          | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031622-D | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031622-D | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031622-D | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031622-D | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031622-D | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622   | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | J        | 0.1      | 0.4     | mg/L  | 0.10       | J        |
| EOS-SW08-031622   | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW08-031622   | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW08-031622   | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031622   | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031622   | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016   | 0.005   | mg/L  | 0.0050     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW08-031622 | 8260B  | Acetone                   | 0.0086     | J        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW08-031622 | 8260B  | Benzene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031622 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW08-031622 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW08-031622 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW08-031622 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW08-031622 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031622 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031622 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031622 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031622 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031622 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Toluene                   | 0.00052    |          | 0.00015 | 0.0005 | mg/L  | 0.00052    |          |
| EOS-SW08-031622 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Trichloroethene           | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031622 | 8260B  | Trichlorofluoromethane    | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Vinyl chloride            | 0.0002     | U        | 0.0002  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031622 | 8260B  | Xylenes, Total            | 0.0005     | J        | 0.00022 | 0.001  | mg/L  | 0.00050    | J        |
| EOS-SW08-031622 | 8270D  | 1,1'-Biphenyl             | 0.00029    | U *1     | 0.00029 | 0.004  | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031622 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U *1     | 0.00057  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U *1     | 0.0021   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031622 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U *1     | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | 2-Chlorophenol               | 0.00045    | U        | 0.00045  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | 2-Methylnaphthalene          | 0.000094   | J *1     | 0.000052 | 0.0016  | mg/L  | 0.000094   | J        |
| EOS-SW08-031622 | 8270D  | 2-Methylphenol               | 0.00024    | U *1     | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | 2-Nitroaniline               | 0.001      | U *1     | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | 2-Nitrophenol                | 0.002      | U *1     | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | 3-Nitroaniline               | 0.0014     | U *-     | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031622 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00051    | U *1     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | 4-Nitrophenol                | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031622 | 8270D  | Acenaphthene                 | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | Acenaphthylene               | 0.00021    | U *1     | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | Acetophenone                 | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Anthracene                   | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | Atrazine                     | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Benzaldehyde                 | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW08-031622 | 8270D  | Benzo[a]anthracene           | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031622 | 8270D  | Benzo[a]pyrene               | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031622 | 8270D  | Benzo[b]fluoranthene         | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031622 | 8270D  | Benzo[g,h,i]perylene         | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213805-2

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031622 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031622 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U *1     | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031622 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW08-031622 | 8270D  | Dibenzofuran                | 0.00021    | U *1     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031622 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | Fluorene                    | 0.0002     | U *1     | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | Hexachlorobenzene           | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031622 | 8270D  | Hexachlorobutadiene         | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Hexachlorocyclopentadiene   | 0.0051     | U *1     | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031622 | 8270D  | Hexachloroethane            | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031622 | 8270D  | Isophorone                  | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | Naphthalene                 | 0.00025    | U *1     | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | Nitrobenzene                | 0.00036    | U *1     | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031622 | 8270D  | N-Nitrosodiphenylamine      | 0.0003     | U *1     | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031622 | 8270D  | Pentachlorophenol           | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031622 | 8270D  | Phenanthrene                | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031622 | 8270D  | Phenol                      | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031622 | 8270D  | Pyrene                      | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-2

Method: 8260B

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                           | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 01/18/2022, Inst. CMS22                                | See Ical recalculation sheet below                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 01/18/2022, Inst. CMS22                                | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 307, Batch 638291<br>1/18/2022, CMS22, chloroethane | Reported chloroethane 5 ug/l RRF: 0.1375<br>$(12899*50)/(937869*5) = 0.1375$                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 307, Batch 638291<br>1/18/2022, CMS22, chloroethane | Reported chloroethane ave. RRF: 0.1736<br>$(0.1612+0.1474+0.1375+0.1579+0.1949+0.1986+0.1964+0.195)/8 = 0.1736$            |
| L4 Page 307, Batch 638291<br>1/18/2022, CMS22, chloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reported chloroethane %RSD = 14.5<br>$(0.0252/0.1736)*100 = 14.5$                                                                                                                                          |                                                             |                                                                                                                            |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                             |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | L4 Pg.644-647, LIMS ID BFB,<br>3/18/2022 at 09:31           | $m/z\ 96 = 7.7\%$<br>$(2404/31304)*100 = 7.7\%$                                                                            |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Pg. 598, ICV 500-638474/3<br>1/19/2022 at 10:12          | chloroethane Conc. = 58.5 ug/l<br>$(185987*50)/(915274*0.1736) = 58.5\ ug/l$                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 595, ICV 500-638474/3<br>1/19/2022 at 10:12          | chloroethane RRF. = 0.2032<br>$(185987*50)/(915274*50) = 0.2032$                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 595, ICV 500-638474/3<br>1/19/2022 at 10:12          | chloroethane %D = 17%<br>$(abs(0.2032-0.1736)/0.1736)*100 = 17\%$                                                          |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Pg. 615-617, CCVIS 500-647702/2,<br>03/18/2022 at 10:19  | chloroethane Conc. = 50.5 ug/l<br>$(152137*50)/(867256*0.1736) = 50.5\ ug/l$                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 615-617, CCVIS 500-647702/2,<br>03/18/2022 at 10:19  | Chloroethane CCRF = 0.1754<br>$(152137*50)/(867256*50\ ug/l) = 0.1754$                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 615-617, CCVIS 500-647702/2,<br>03/18/2022 at 10:19  | Chloroethane %D = 1.0%<br>$(abs(0.1754-0.1736)/0.1841)*100 = 1.0\%$                                                        |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Check result                                                                                                                                                                                               | NA - no detects                                             |                                                                                                                            |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-2

Method: 8260B

|                                                  |                                                   |                                                                          |                                                                                                |
|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Surrogate                                        | Recalculate one %R                                | L4 Pg. 236-238, EOS-SW03-031622<br>3/18/2022 at 12:14                    | 1,2-Dichloroethane-d4 %R = 98%<br>(49.1 ug/l/50 ug/l)*100 = 98%                                |
| MS                                               | Check result                                      | NA                                                                       |                                                                                                |
|                                                  | Recalculate one %R                                | NA                                                                       |                                                                                                |
| MSD                                              | Check result                                      | NA                                                                       |                                                                                                |
|                                                  | Recalculate one %R                                | NA                                                                       |                                                                                                |
|                                                  | Recalculate one RPD value<br>between MS and MSD   | NA                                                                       |                                                                                                |
| LCS                                              | Check result                                      | L4 Pg. 655-658, Sample: LCS 500-647702/4<br>3/18/2022 at 11:06           | chloroethane Conc. = 0.0541 mg/l<br>(168631*50 ug/l)/(897134*0.1736)/(1000ug/mg) = 0.0541 mg/l |
|                                                  | Recalculate one %R                                | Summary Report Pg. 35,<br>Sample: LCS 500-647702/4<br>3/18/2022 at 11:06 | chloroethane %R = 108%<br>(0.0541 mg/l/0.0500 mg/l)*100 = 108%                                 |
| LCSD                                             | Check result                                      | NA - No LCSD                                                             |                                                                                                |
|                                                  | Recalculate one %R                                | NA - No LCSD                                                             |                                                                                                |
|                                                  | Recalculate one RPD value<br>between LCS and LCSD | NA - No LCSD                                                             |                                                                                                |
| Internal Standards                               | Recalculate one %R                                | NA - %Rs were not provided                                               | IS areas were evaluated and were within acceptable limits.                                     |
|                                                  | Recalculate one delta RT                          | NA - %Rs were not provided                                               | IS RTs were evaluated and were within acceptable limits.                                       |
| Sample Result for<br>EOS-SW03-031622             | Check result                                      | L4 Pg. 237-238,<br>3/18/2022 at 12:14                                    | Acetone Conc. = 0.0031 mg/l<br>(3771*50 ug/l)/(887678*0.0685)/(1000ug/mg) = 0.0031 mg/l        |
| MDL for _____                                    | Check result                                      | NA - MDLs no change for aqueous undiluted<br>samples                     |                                                                                                |
| RL for _____                                     | Check result                                      | NA - RLs no change for aqueous undiluted<br>samples                      |                                                                                                |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                      | NA                                                                       |                                                                                                |

Formulas:

\*  $\text{Conc. (mg/kg)} = \{(\text{Raw Conc. in ug/L}) \times (\text{Vol. in L}) \times \text{DF}\} / \{(\text{Sample mass in kg}) \times (\text{fractional solids}) \times (1000)\}$

\*\*  $\text{Serial dilution conc. (ug/L)} = (\text{Raw Conc. in ug/L}) \times (\text{DF, typically 5})$

\*\*\*  $\%R = [(\text{Measured Value}) / (\text{True Value})] \times 100$

\*\*\*\*  $\%R = \{(\text{Spike sample result}) - (\text{Sample result})\} / (\text{Spike added}) \times 100$

$\text{RPD} = [(A-B) / \{(A + B)/2\}] \times 100$

$\text{Percent difference} = [(\text{Original Result} - \text{Diluted Result}) / \text{Original Result}] \times 100$

**Report No: J213805-2**

| Initial Calibration  | VOC          |        |            |        |        |        |        |        |
|----------------------|--------------|--------|------------|--------|--------|--------|--------|--------|
| Inst. CMS22          | chloroethane |        | L4 Pg. 307 |        |        |        |        |        |
| Concentration (ug/L) | 1.0          | 2.0    | 5.0        | 20.0   | 50.0   | 100.0  | 150.0  | 200.0  |
| Rf                   | 0.1612       | 0.1474 | 0.1375     | 0.1579 | 0.1949 | 0.1986 | 0.1964 | 0.1950 |

|         |        |   |  |  |  |        |
|---------|--------|---|--|--|--|--------|
| Std Dev | 0.0252 |   |  |  |  | 0.1736 |
| Mean Rf | 0.1736 | ✓ |  |  |  |        |
| %RSD    | 14.52  | ✓ |  |  |  |        |

Concentration 5 (ug/L) Rf Check

chloroethane area = 12899, 5.0 ug/L L4 Pg. 417  
 Fluorobenzene (internal standard) area = 937869, 50.0 ug/L L4 Pg. 418

$$\frac{12899}{937869} \times \frac{50.0 \text{ ug/L}}{5.0 \text{ ug/L}} = 0.1375 \quad \checkmark$$

Concentration 100 (ug/L) Rf Check

chloroethane area = 361059, 100 ug/L L4 Pg. 472  
 Fluorobenzene (internal standard) area = 909051, 100 ug/L L4 Pg. 473

$$\frac{361059}{909051} \times \frac{100 \text{ ug/L}}{100 \text{ ug/L}} = 0.1986 \quad \checkmark$$

Report No: J213805-2

VOC by 8260B - Initial Calibration

1/18/2022

Instrument CMS22

Chloromethane

Weighted Linear Regression (1/A)

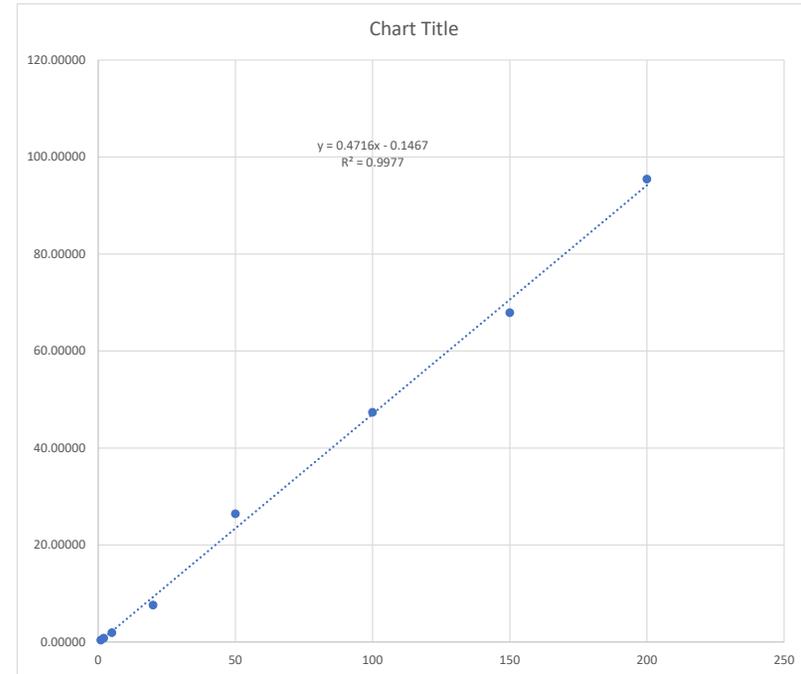
Page(s): 506

| C(ug/L) <sub>x</sub> | C(ug/L) <sub>IS</sub> | Conc. Ratio<br>(C <sub>x</sub> /C <sub>IS</sub> ) | A <sub>x</sub> | A <sub>IS</sub> | Resp. Ratio<br>(A <sub>x</sub> /A <sub>IS</sub> ) | Rel Resp. |
|----------------------|-----------------------|---------------------------------------------------|----------------|-----------------|---------------------------------------------------|-----------|
| 1                    | 50                    | 0.0200                                            | 7574           | 944249          | 0.00802                                           | 0.40106   |
| 2                    | 50                    | 0.0400                                            | 15099          | 921169          | 0.01639                                           | 0.81956   |
| 5                    | 50                    | 0.1000                                            | 36380          | 937869          | 0.03879                                           | 1.93950   |
| 20                   | 50                    | 0.4000                                            | 145850         | 959484          | 0.15201                                           | 7.60044   |
| 50                   | 50                    | 1.0000                                            | 457658         | 865208          | 0.52896                                           | 26.44786  |
| 100                  | 50                    | 2.0000                                            | 861049         | 909051          | 0.94720                                           | 47.35977  |
| 150                  | 50                    | 3.0000                                            | 1241662        | 914539          | 1.35769                                           | 67.88458  |
| 200                  | 50                    | 4.0000                                            | 1690233        | 885277          | 1.90927                                           | 95.46351  |

Slope:  $\frac{0.04716}{0.01467}$   
 Intercept:  $\frac{0.01467}{0.99885}$   
 r:  $\frac{0.99885}{0.99770}$   
 r<sup>2</sup>:  $\frac{0.99770}{0.99770}$

\*(X) = target analyte

\*(IS) = internal standard



ICV Recalc

L4 Pg. 598-599

$$\text{Conc.} = (((\text{Target Area}/\text{IS Area}) * \text{IS Conc.}) + \text{intercept}) / \text{slope}$$

| RespX  | RespIS | Conc.IS | On Column Amt (ugl) |
|--------|--------|---------|---------------------|
| 530649 | 915274 | 50      | 61.7534             |
| 6605   | 636197 | 50      | 10.9323             |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-2

Method: 8270D

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                             | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 2/22/2022, Inst. CMS01                                   | See Ical recalculation sheet below                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 2/22/2022, Inst. CMS01                                   | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 771, Batch 643802<br>2/22/2022, CMS01, phenol         | Reported phenol 4.0 ug/l RRF: 1.3003<br>$(627844 * 3.2 \text{ ug/ml}) / (386287 * 4 \text{ ug/ml}) = 1.3003$                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                            | L4 Page 771, Batch 643802<br>2/22/2022, CMS01, phenol         | Reported phenol ave. RRF: 1.2463<br>$(1.1690 + 1.1276 + 0.9782 + 1.1812 + 1.3003 + 1.3340 + 1.4378 + 1.3587 + 1.3302) / 9 = 1.2463$ |
| L4 Page 771, Batch 643802<br>2/22/2022, CMS01, phenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reported phenol %RSD = 11.5%<br>$(0.1428 / 1.2463) * 100 = 11.5\%$                                                                                                                                         |                                                               |                                                                                                                                     |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="center"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                               |                                                                                                                                     |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm DFTPP Percent Relative Abundance                                                                                                                                                                   | L4 Pg. 1146, LIMS ID DFTPP,<br>3/18/2022 at 09:10             | m/z 199 = 6.8%<br>$(38088 / 560448) * 100 = 6.8\%$                                                                                  |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Check result                                                                                                                                                                                               | L4 Pg. 1081, Samp ID ICV 500-643802/13,<br>2/22/2022 at 15:25 | phenol Conc. = 7.48 ug/ml<br>$(934977 * 3.2 \text{ ug/ml}) / (321083 * 1.2463) = 7.48 \text{ ug/ml}$                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 1078, Samp ID ICV 500-643802/13,<br>2/22/2022 at 15:25 | phenol RRF. = 1.331<br>$(934977 * 3.2 \text{ ug/ml}) / (321083 * 7.0 \text{ ug/ml}) = 1.331$                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1078, Samp ID ICV 500-643802/13,<br>2/22/2022 at 15:25 | phenol %D = 6.8%<br>$(\text{abs}(1.331 - 1.2463) / 1.2463) * 100 = 6.8\%$                                                           |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Check result                                                                                                                                                                                               | L4 Pg. 1108-1112 CCVIS 500-647713/2,<br>3/18/2022 at 09:34    | phenol Conc. = 8.73 ug/ml<br>$(1143879 * 3.2 \text{ ug/ml}) / (336287 * 1.2463) = 8.73 \text{ ug/ml}$                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg.1108, CCVIS 500-647713/2,<br>3/18/2022 at 09:34         | phenol CCRF = 1.555<br>$(1143879 * 3.2 \text{ ug/ml}) / (336287 * 7.0 \text{ ug/ml}) = 1.555$                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1108, CCVIS 500-647713/2,<br>3/18/2022 at 09:34        | phenol %D = 24.8%<br>$(\text{abs}(1.555 - 1.2463) / 1.2463) * 100 = 24.8\%$                                                         |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Check result                                                                                                                                                                                               | NA - no detects                                               |                                                                                                                                     |
| Surrogate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Recalculate one %R                                                                                                                                                                                         | L4 Pg. 694-697, EOS-SW03-031622<br>03/18/2022 at 15:12        | Phenol-d5 %R = 33%<br>$(3.35 \text{ ug/ml} / 10 \text{ ug/ml}) * 100 = 33\%$                                                        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-2

Method: 8270D

|                                                  |                                                |                                                                             |                                                                                                                                            |
|--------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| MS                                               | Check result                                   | NA                                                                          |                                                                                                                                            |
|                                                  | Recalculate one %R                             | NA                                                                          |                                                                                                                                            |
| MSD                                              | Check result                                   | NA                                                                          |                                                                                                                                            |
|                                                  | Recalculate one %R                             | NA                                                                          |                                                                                                                                            |
|                                                  | Recalculate one RPD value between MS and MSD   | NA                                                                          | 0.02236                                                                                                                                    |
| LCS                                              | Check result                                   | L4 Pg. 1161, Sample: LCS 500-647588/2-A<br>3/18/2022 at 11:59               | phenol Conc. = 0.0224 mg/l<br>(739826*3.2 ug/ml)/(339547*1.2463) = 5.59 ug/ml<br>= (5.59 ug/ml/250 ml) = 0.0226 mg/l                       |
|                                                  | Recalculate one %R                             | Summary Report Pg. 38,<br>Sample: LCS 500-647588/2-A<br>3/18/2022 at 11:59  | phenol %R = 70%<br>(0.0224 mg/l/0.032 mg/l)*100 = 70%                                                                                      |
| LCSD                                             | Check result                                   | L4 Pg. 1170, Sample: LCSD 500-647588/3-A<br>3/18/2022 at 12:23              | phenol Conc. = 0.0262 mg/l<br>(847425*3.2 ug/ml)/(332294*1.2463) = 6.55 ug/ml<br>= (6.55 ug/ml/250 ml) = 0.0262 mg/l                       |
|                                                  | Recalculate one %R                             | Summary Report Pg. 39,<br>Sample: LCSD 500-647588/3-A<br>3/18/2022 at 12:23 | phenol %R = 82%<br>(0.0262 mg/l/0.032 mg/l)*100 = 82%                                                                                      |
|                                                  | Recalculate one RPD value between LCS and LCSD | Summary Report Pg. 39,<br>Sample: LCSD 500-647588/3-A<br>3/18/2022 at 12:23 | phenol RPD = 16%<br>abs(0.0262 mg/l-0.0224 mg/l)/((0.0262 mg/l+0.0224 mg/l)/2)*100 = 16%                                                   |
| Internal Standards                               | Recalculate one %R                             | NA - %Rs were not provided                                                  | IS areas were evaluated and were within acceptable limits.                                                                                 |
|                                                  | Recalculate one delta RT                       | NA - %Rs were not provided                                                  | IS RTs were evaluated and were within acceptable limits.                                                                                   |
| Sample Result for EOS-SW04-031622                | Check result                                   | L4 Pg. 698-701, Lab ID 500-213805-9<br>03/18/2022 at 15:36                  | 2-methylnaphthalene Conc. = 0.000054 mg/l<br>(2839*3.2 ug/ml)/(1009614*0.6687) = 0.01346 ug/ml<br>= (0.01346 ug/ml/250 ml) = 0.000054 mg/l |
| MDL for _____                                    | Check result                                   | NA - MDLs no change for aqueous undiluted samples                           |                                                                                                                                            |
| RL for _____                                     | Check result                                   | NA - RLs no change for aqueous undiluted samples                            |                                                                                                                                            |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                   | NA                                                                          |                                                                                                                                            |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**J213805-2**

Initial Calibration 2/22/2022

SVOC

Inst. CMS01

phenol

pg. 771

Concentration (ug/mL)

0.1

0.2

1.0

2.0

4.0

8.0

10.0

12.0

14.0

Rf

1.1690

1.1276

0.9782

1.1812

1.3003

1.3340

1.4378

1.3587

1.3302

Std Dev

0.1428

Mean Rf

1.2463



%RSD

11.5



Concentration 0.2 (ug/mL) Rf Check

phenol area = 15016, 0.2 ug/mL

pg. 777

1,4-dichlorobenzene-d4 (internal standard) area = 213060, 3.2 ug/mL (pg. 874)

15016

x

3.2 ug/mL

=

1.1276



---

213060

x

0.2 ug/mL

Concentration 8.0 (ug/mL) Rf Check

phenol area = 1431826, 8.0 ug/mL

pg. 777

1,4-dichlorobenzene-d4 (internal standard) area = 429340, 3.2 ug/mL (pg. 790)

1431826

x

3.2 ug/mL

=

1.334



---

429340

x

8.0 ug/mL

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

**Data Package Number: J213805-2**

**Method: 8015C**

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                          | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 4/10/2021, INST13-14                                  | See Ical linear regression recalculation                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 4/10/2021, INST13-14                                  | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 1216-1267, Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 1216-1267, Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 1216-1267, Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                            |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB/DFTPP Percent Relative Abundance                                                                                                                                                               | NA                                                         |                                                                                                                            |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Pg. 1267, Sample: ICV 500-592618/11 4/10/2021 at 18:59  | GRO Conc. = 363 ug/l<br>(20672016-495016.43)/55585.941 = 363 ug/l                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | NA                                                         | RFs not applicable                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1267, Sample: ICV 500-592618/11 4/10/2021 at 18:59  | GRO %D = -10.1%<br>(363 ug/l - 404 ug/l)/404 ug/l)*100 = -10.1%                                                            |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Pg. 1283, Sample: CCV 500-647601/13 03/18/2022 at 04:21 | GRO Conc. = 362 ug/l<br>(20625884-495016.43)/55585.941 = 362 ug/l                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | NA                                                         | RFs not applicable                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1283, Sample: CCV 500-647601/13 03/18/2022 at 04:21 | GRO %D = -9.5%<br>(362 ug/l - 400 ug/l)/400 ug/l)*100 = -9.5%                                                              |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Check result                                                                                                                                                                                               | L4 Pg. 1299, Sample: MB 500-647601/3 03/17/2022 at 22:25   | GRO not detected                                                                                                           |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213805-2

Method: 8015C

| Validation Element                               | Objective                                      | Sample ID, Run Date, and Run Time                            | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|--------------------------------------------------|------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Surrogate                                        | Recalculate one %R                             | L4 Pg. 1188, Sample: EOS-SW03-031622<br>03/18/2022 at 04:57  | 4-Bromofluorobenzene %R = 102%<br>(20.5 ug/l/20 ug/l)*100 = 102%                                                           |
| MS                                               | Check result                                   | NA                                                           |                                                                                                                            |
|                                                  | Recalculate one %R                             | NA                                                           |                                                                                                                            |
| MSD                                              | Check result                                   | NA                                                           |                                                                                                                            |
|                                                  | Recalculate one %R                             | NA                                                           |                                                                                                                            |
|                                                  | Recalculate one RPD value between MS and MSD   | NA                                                           |                                                                                                                            |
| LCS                                              | Check result                                   | L4 Pg. 1303, Sample: LCS 500-647601/4<br>03/17/2022 at 23:01 | GRO Conc. = 0.354 mg/l<br>((20178934-495016.43)/55585.941)/1000 ug/mg = 0.354 mg/l                                         |
|                                                  | Recalculate one %R                             | L2 Pg. 41, Sample: LCS 500-647601/4<br>03/17/2022 at 23:01   | GRO %R = 88%<br>(0.354 mg/l/0.403 mg/l)*100 = 87.8%                                                                        |
| LCSD                                             | Check result                                   | NA                                                           |                                                                                                                            |
|                                                  | Recalculate one %R                             | NA                                                           |                                                                                                                            |
|                                                  | Recalculate one RPD value between LCS and LCSD | NA                                                           |                                                                                                                            |
| Internal Standards                               | Recalculate one %R                             | NA                                                           |                                                                                                                            |
|                                                  | Recalculate one delta RT                       | NA                                                           |                                                                                                                            |
| Sample Result for                                | Check result                                   | NA - No GRO detects                                          |                                                                                                                            |
| MDL for _____                                    | Check result                                   | NA - MDLs no change for aqueous undiluted samples            |                                                                                                                            |
| RL for _____                                     | Check result                                   | NA - RLs no change for aqueous undiluted samples             |                                                                                                                            |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                   | NA                                                           |                                                                                                                            |

Formulas:

\*  $\text{Conc. (mg/kg)} = \{(\text{Raw Conc. in ug/L}) \times (\text{Vol. in L}) \times \text{DF}\} / \{(\text{Sample mass in kg}) \times (\text{fractional solids}) \times (1000)\}$

\*\*  $\text{Serial dilution conc. (ug/L)} = (\text{Raw Conc. in ug/L}) \times (\text{DF, typically 5})$

\*\*\*  $\%R = [(\text{Measured Value}) / (\text{True Value})] \times 100$

\*\*\*\*  $\%R = \{(\text{Spike sample result}) - (\text{Sample result})\} / (\text{Spike added}) \times 100$

$\text{RPD} = [(A-B) / \{(A + B)/2\}] \times 100$

$\text{Percent difference} = [(\text{Original Result} - \text{Diluted Result}) / \text{Original Result}] \times 100$

**Report No: J213805-2**

GRO by 8015C - Initial Calibration

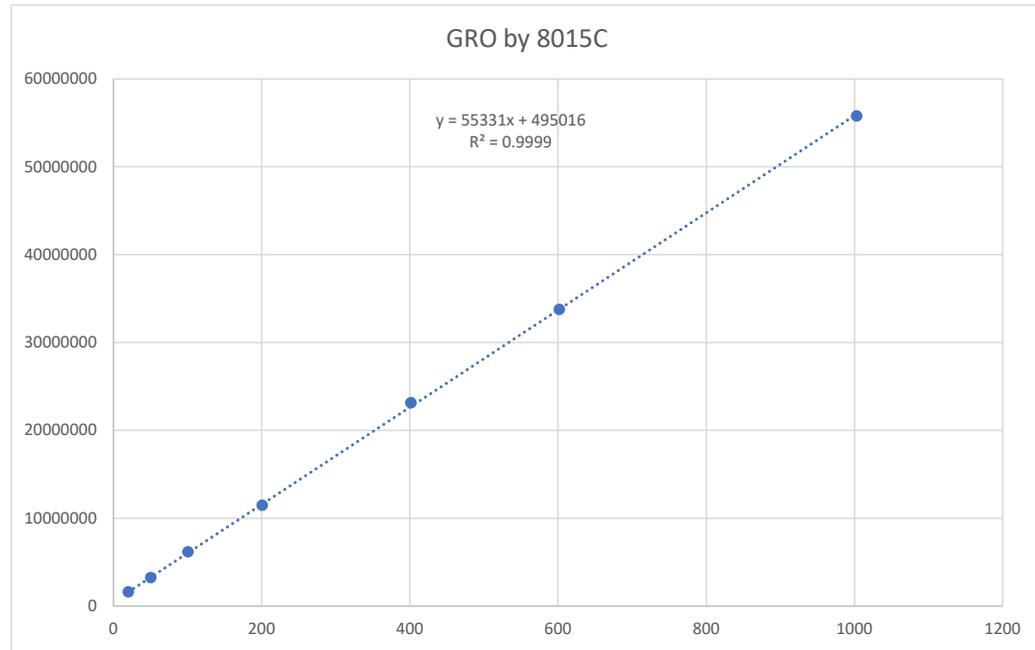
4/10/2021

**Inst. INST13-14**

**Linear Calibration Recalculation**

Page(s): 1216-1269

| C(ug/L) | Resp.    | Resp. Ratio<br>(Resp <sub>x</sub> /C <sub>x</sub> ) |
|---------|----------|-----------------------------------------------------|
| 20.052  | 1611906  | 80386.29563                                         |
| 50.13   | 3244891  | 64729.52324                                         |
| 100.26  | 6178962  | 61629.38360                                         |
| 200.52  | 11499488 | 57348.33433                                         |
| 401.04  | 23149413 | 57723.45153                                         |
| 601.56  | 33783070 | 56159.10300                                         |
| 1002.6  | 55788408 | 55643.73429                                         |



|           |             |
|-----------|-------------|
| Slope     | 55331.0000  |
| intercept | 495016.4300 |
| R         | 0.99995     |
| R-squared | 0.99990     |

ICV Recalculation Pg. 1267

|           |            |           |             |
|-----------|------------|-----------|-------------|
| GRO Resp. | Slope      | Intercept | Amount ug/l |
| 20672016  | 55331.0000 | 495016.43 | 363.0       |

$(20672016 - 495016.43) / 55585.941$

\*(X) = target analyte

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                                                                |                                                |                                                                                                                                                                                            |
|-------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505                                               | <b>TO/TOLIN No.</b>                            | 68HE0519F0071/0001DC102                                                                                                                                                                    |
| <b>Document Tracking No.</b>              | 1154c                                                                          | <b>Technical Reviewer (signature and date)</b> | <i>Harry N. Ellis III</i> 20 April 2022                                                                                                                                                    |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/6/2022                                                    | <b>Laboratory</b>                              | Eurofins – Chicago, IL                                                                                                                                                                     |
| <b>Laboratory Report No.</b>              | 500-213894-1                                                                   | <b>Analyses</b>                                | Volatile organic compounds by SW-846 method 8260B, semi volatile organic compounds by SW-846 method 8270D, and gasoline range, diesel range, and oil range organics by SW-846 method 8015C |
| <b>Samples and Matrix</b>                 | Seven surface water samples (including one field duplicate) and one trip blank |                                                |                                                                                                                                                                                            |
| <b>Collection Date(s)</b>                 | March 17, 2022                                                                 |                                                |                                                                                                                                                                                            |
| <b>Field Duplicate Pairs</b>              | EOS-SW08-031722 and EOS-SW08-031722-D                                          |                                                |                                                                                                                                                                                            |
| <b>Field QC Blanks</b>                    | EOS-TB06-031722                                                                |                                                |                                                                                                                                                                                            |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No rejection of data was required for this data package. The results may be used as qualified based on the findings of this report.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Instrument Performance Checks:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N                  | The pentachlorophenol and benzidine peak tailing factors were above acceptable limits in the DFTPP tuning standard used for SVOC analysis. The pentachlorophenol and benzidine peak tailing factors were within acceptance limits in the subsequent continuing calibration verification (CCV) standard that was analyzed prior to the project samples. This indicated that the system was in control and no further action was necessary. |

**Initial Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Continuing Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Calibration Verification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Method blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Field blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Interference Check Samples (ICS) (ICP metals only):**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Surrogates and labeled compounds:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                            |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N                  | The percent recovery (%R) for surrogate compound terphenyl-d14 was above acceptance limits for EOS-SW03-031722 and EOS-SW08-031722-D. Therefore, the positive result for caprolactam in EOS-SW03-031722 and for 2-methylnaphthalene in EOS-SW08-031722-D were qualified as estimated, potentially biased high (flagged J+). |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**MS/MSDs:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | <p>The matrix spike/matrix spike duplicate (MS/MSD) %Rs for 3,3-dichlorobenzidine were below acceptable limits. Therefore, the 3,3-dichlorobenzidine result in EOS-SW05-031722 was qualified as estimated, potentially biased low (flagged UJ).</p> <p>The MS %R for 2-nitrophenol was above acceptable limits. However, the average %R for 2-Nitrophenol in the MS/MSD pair was within acceptable limits. As a result, no qualifications were necessary.</p> <p>The MS/MSD relative percent difference (RPD) was outside of acceptable limits for the following analytes:</p> <ul style="list-style-type: none"> <li>• 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-chloronaphthalene, 2-chlorophenol, 2-methylphenol, 2-nitroaniline, 2-nitrophenol, 3 &amp; 4-methylphenol, 3,3'-dichlorobenzidine, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-bromophenyl phenyl ether, 4-chloro-3-methylphenol, 4-chloroaniline, 4-chlorophenyl phenyl ether, 4-nitroaniline, 4-nitrophenol, bis(2-chloroethoxy)methane, caprolactam, carbazole, chrysene, di-n-octyl phthalate, fluorene, hexachlorobenzene, hexachlorocyclopentadiene, isophorone, n-nitrosodiphenylamine, pentachlorophenol, phenanthrene, and phenol.</li> </ul> <p>However, there were no positive results for these analytes in the parent sample. Therefore, no qualifications were necessary.</p> |

**Post digestion spikes:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Serial dilutions:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Laboratory duplicates:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Field duplicates:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**LCSs/LCSDs:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                               |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The laboratory control sample (LCS) %Rs for 2-chlorophenol and 2-nitrophenol were above acceptable limits. However, 2-Chlorophenol and 2-Nitrophenol were not detected in the associated samples. Therefore, no qualifications were necessary. |

**Sample dilutions:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Re-extraction and reanalysis:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Second column confirmation (GC and HPLC analyses only):**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Internal Standards:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Target analyte identification:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Analyte quantitation and MDLs/RLs:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                   |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y               | Concentrations between the MDL and RL were qualified as estimated (flagged J) by the laboratory. Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Other [specify]:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |



## DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW03-031722 | 8015C  | Diesel Range Organics [C10-C28]       | 0.12       | J        | 0.11    | 0.41   | mg/L  | 0.12       | J        |
| EOS-SW03-031722 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02   | mg/L  | 0.020      | U        |
| EOS-SW03-031722 | 8015C  | Oil Range Organics (C20-C34)          | 0.41       | U        | 0.41    | 0.83   | mg/L  | 0.83       | U        |
| EOS-SW03-031722 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031722 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW03-031722 | 8260B  | Acetone                               | 0.0017     | U        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW03-031722 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW03-031722 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW03-031722 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW03-031722 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW03-031722 | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Cyclohexane                           | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Dibromochloromethane                  | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031722 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW03-031722 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW03-031722 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031722 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031722 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031722 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031722 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW03-031722 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW03-031722 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031722 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U        | 0.00057  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | 2,4-Dinitrophenol            | 0.0068     | U        | 0.0068   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031722 | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U        | 0.00019  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | 2,6-Dinitrotoluene           | 0.000058   | U        | 0.000058 | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | 2-Chlorophenol               | 0.00044    | U *+     | 0.00044  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | 2-Methylnaphthalene          | 0.000052   | U        | 0.000052 | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | 2-Nitrophenol                | 0.002      | U *+     | 0.002    | 0.0079  | mg/L  | 0.0079     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031722 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | 3-Nitroaniline              | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031722 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | 4-Chlorophenyl phenyl ether | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031722 | 8270D  | Acenaphthene                | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Acenaphthylene              | 0.00021    | U        | 0.00021  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Anthracene                  | 0.00026    | U        | 0.00026  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW03-031722 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031722 | 8270D  | Benzo[a]pyrene              | 0.000078   | U        | 0.000078 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031722 | 8270D  | Benzo[b]fluoranthene        | 0.000064   | U        | 0.000064 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031722 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031722 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | Caprolactam                 | 0.0012     | J        | 0.0012   | 0.0079  | mg/L  | 0.0012     | J+       |
| EOS-SW03-031722 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Chrysene                    | 0.000054   | U        | 0.000054 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031722 | 8270D  | Dibenz(a,h)anthracene       | 0.00004    | U        | 0.00004  | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW03-031722 | 8270D  | Dibenzofuran                | 0.00021    | U        | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031722 | 8270D  | Di-n-octyl phthalate                  | 0.00083    | U        | 0.00083  | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW03-031722 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Fluorene                              | 0.00019    | U        | 0.00019  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Hexachlorobenzene                     | 0.000063   | U        | 0.000063 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW03-031722 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U        | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031722 | 8270D  | Hexachloroethane                      | 0.00047    | U        | 0.00047  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.000059   | U        | 0.000059 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031722 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | Naphthalene                           | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Nitrobenzene                          | 0.00036    | U        | 0.00036  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW03-031722 | 8270D  | N-Nitrosodiphenylamine                | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031722 | 8270D  | Pentachlorophenol                     | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031722 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW03-031722 | 8270D  | Phenol                                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW03-031722 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW04-031722 | 8015C  | Diesel Range Organics [C10-C28]       | 0.11       | U        | 0.11     | 0.42    | mg/L  | 0.42       | U        |
| EOS-SW04-031722 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW04-031722 | 8015C  | Oil Range Organics (C20-C34)          | 0.42       | U        | 0.42     | 0.85    | mg/L  | 0.85       | U        |
| EOS-SW04-031722 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW04-031722 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
 EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW04-031722 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031722 | 8260B  | Acetone                   | 0.0017     | U        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW04-031722 | 8260B  | Benzene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031722 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031722 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031722 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031722 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031722 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031722 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031722 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031722 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031722 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031722 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Toluene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031722 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Trichloroethene           | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031722 | 8260B  | Trichlorofluoromethane    | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW04-031722 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031722 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U        | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U        | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW04-031722 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | 2-Chlorophenol               | 0.00045    | U *+     | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | 2-Methylnaphthalene          | 0.000072   | J        | 0.000052 | 0.0016 | mg/L  | 0.000072   | J        |
| EOS-SW04-031722 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | 2-Nitrophenol                | 0.002      | U *+     | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 3 & 4 Methylphenol           | 0.00036    | U        | 0.00036  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | 3-Nitroaniline               | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0047     | U        | 0.0047   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW04-031722 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00043    | U        | 0.00043  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00051    | U        | 0.00051  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | 4-Nitrophenol                | 0.0059     | U        | 0.0059   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW04-031722 | 8270D  | Acenaphthene                 | 0.00025    | U        | 0.00025  | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Acenaphthylene               | 0.00021    | U        | 0.00021  | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Acetophenone                 | 0.00053    | U        | 0.00053  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Anthracene                   | 0.00027    | U        | 0.00027  | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Atrazine                     | 0.0005     | U        | 0.0005   | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Benzaldehyde                 | 0.012      | U        | 0.012    | 0.032  | mg/L  | 0.032      | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW04-031722 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031722 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031722 | 8270D  | Benzo[b]fluoranthene        | 0.000064   | U        | 0.000064 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031722 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031722 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Chrysene                    | 0.000054   | U        | 0.000054 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031722 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW04-031722 | 8270D  | Dibenzofuran                | 0.00021    | U        | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Di-n-butyl phthalate        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Di-n-octyl phthalate        | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW04-031722 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Fluorene                    | 0.00019    | U        | 0.00019  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Hexachlorobenzene           | 0.000063   | U        | 0.000063 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW04-031722 | 8270D  | Hexachlorobutadiene         | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Hexachlorocyclopentadiene   | 0.0051     | U        | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031722 | 8270D  | Hexachloroethane            | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW04-031722 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031722 | 8270D  | Isophorone                  | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | Naphthalene                 | 0.00025    | U        | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Nitrobenzene                | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW04-031722 | 8270D  | N-Nitrosodiphenylamine      | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031722 | 8270D  | Pentachlorophenol           | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031722 | 8270D  | Phenanthrene                | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW04-031722 | 8270D  | Phenol                      | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW04-031722 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW05-031722 | 8015C  | Diesel Range Organics [C10-C28]       | 0.099      | U        | 0.099   | 0.39   | mg/L  | 0.39       | U        |
| EOS-SW05-031722 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02   | mg/L  | 0.020      | U        |
| EOS-SW05-031722 | 8015C  | Oil Range Organics (C20-C34)          | 0.39       | U        | 0.39    | 0.78   | mg/L  | 0.78       | U        |
| EOS-SW05-031722 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031722 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW05-031722 | 8260B  | Acetone                               | 0.0038     | J        | 0.0017  | 0.01   | mg/L  | 0.0038     | J        |
| EOS-SW05-031722 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW05-031722 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW05-031722 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW05-031722 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW05-031722 | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Cyclohexane                           | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031722 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW05-031722 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW05-031722 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031722 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031722 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031722 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031722 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW05-031722 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW05-031722 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031722 | 8270D  | 1,1'-Biphenyl                | 0.00028    | U        | 0.00028  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.00029    | U        | 0.00029  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 2,4,6-Trichlorophenol        | 0.00055    | U F2     | 0.00055  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | 2,4-Dichlorophenol           | 0.002      | U F2     | 0.002    | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U F2     | 0.0014   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 2,4-Dinitrophenol            | 0.0066     | U        | 0.0066   | 0.015   | mg/L  | 0.015      | U        |
| EOS-SW05-031722 | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U F2     | 0.00019  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | 2,6-Dinitrotoluene           | 0.000057   | U F2     | 0.000057 | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | 2-Chloronaphthalene          | 0.00018    | U F2     | 0.00018  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | 2-Chlorophenol               | 0.00043    | U F2 *+  | 0.00043  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | 2-Methylnaphthalene          | 0.000062   | J        | 0.00005  | 0.0015  | mg/L  | 0.000062   | J        |
| EOS-SW05-031722 | 8270D  | 2-Methylphenol               | 0.00023    | U F2     | 0.00023  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | 2-Nitroaniline               | 0.00099    | U F2     | 0.00099  | 0.0038  | mg/L  | 0.0038     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual   | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|------------|----------|---------|-------|------------|----------|
| EOS-SW05-031722 | 8270D  | 2-Nitrophenol               | 0.0019     | U F1 F2 *+ | 0.0019   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 3 & 4 Methylphenol          | 0.00034    | U F2       | 0.00034  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0013     | U F1 F2    | 0.0013   | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | 3-Nitroaniline              | 0.0014     | U F2       | 0.0014   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0045     | U F2       | 0.0045   | 0.015   | mg/L  | 0.015      | U        |
| EOS-SW05-031722 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00042    | U F2       | 0.00042  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U F2       | 0.0018   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 4-Chloroaniline             | 0.0015     | U F2       | 0.0015   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00049    | U F2       | 0.00049  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | 4-Nitroaniline              | 0.0013     | U F2       | 0.0013   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | 4-Nitrophenol               | 0.0057     | U F2       | 0.0057   | 0.015   | mg/L  | 0.015      | U        |
| EOS-SW05-031722 | 8270D  | Acenaphthene                | 0.00024    | U          | 0.00024  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Acenaphthylene              | 0.00021    | U          | 0.00021  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Acetophenone                | 0.00051    | U          | 0.00051  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Anthracene                  | 0.00026    | U          | 0.00026  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Atrazine                    | 0.00048    | U          | 0.00048  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Benzaldehyde                | 0.012      | U          | 0.012    | 0.031   | mg/L  | 0.031      | U        |
| EOS-SW05-031722 | 8270D  | Benzo[a]anthracene          | 0.000044   | U          | 0.000044 | 0.00015 | mg/L  | 0.00015    | U        |
| EOS-SW05-031722 | 8270D  | Benzo[a]pyrene              | 0.000076   | U          | 0.000076 | 0.00015 | mg/L  | 0.00015    | U        |
| EOS-SW05-031722 | 8270D  | Benzo[b]fluoranthene        | 0.000062   | U          | 0.000062 | 0.00015 | mg/L  | 0.00015    | U        |
| EOS-SW05-031722 | 8270D  | Benzo[g,h,i]perylene        | 0.00029    | U          | 0.00029  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Benzo[k]fluoranthene        | 0.000049   | U          | 0.000049 | 0.00015 | mg/L  | 0.00015    | U        |
| EOS-SW05-031722 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00022    | U F2       | 0.00022  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | Bis(2-chloroethyl)ether     | 0.00022    | U          | 0.00022  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0013     | U          | 0.0013   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | Butyl benzyl phthalate      | 0.00037    | U          | 0.00037  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | Caprolactam                 | 0.0011     | U F2       | 0.0011   | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | Carbazole                   | 0.00027    | U F2       | 0.00027  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Chrysene                    | 0.000052   | U F2       | 0.000052 | 0.00015 | mg/L  | 0.00015    | U        |
| EOS-SW05-031722 | 8270D  | Dibenz(a,h)anthracene       | 0.000039   | U          | 0.000039 | 0.00023 | mg/L  | 0.00023    | U        |
| EOS-SW05-031722 | 8270D  | Dibenzofuran                | 0.0002     | U          | 0.0002   | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | Diethyl phthalate           | 0.00028    | U          | 0.00028  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Dimethyl phthalate          | 0.00024    | U          | 0.00024  | 0.0038  | mg/L  | 0.0038     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031722 | 8270D  | Di-n-butyl phthalate                  | 0.00056    | U        | 0.00056  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Di-n-octyl phthalate                  | 0.00081    | U F2     | 0.00081  | 0.0077  | mg/L  | 0.0077     | U        |
| EOS-SW05-031722 | 8270D  | Fluoranthene                          | 0.00035    | U        | 0.00035  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Fluorene                              | 0.00019    | U F2     | 0.00019  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Hexachlorobenzene                     | 0.000061   | U F2     | 0.000061 | 0.00038 | mg/L  | 0.00038    | U        |
| EOS-SW05-031722 | 8270D  | Hexachlorobutadiene                   | 0.0004     | U        | 0.0004   | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Hexachlorocyclopentadiene             | 0.0049     | U F2     | 0.0049   | 0.015   | mg/L  | 0.015      | U        |
| EOS-SW05-031722 | 8270D  | Hexachloroethane                      | 0.00046    | U        | 0.00046  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.000057   | U        | 0.000057 | 0.00015 | mg/L  | 0.00015    | U        |
| EOS-SW05-031722 | 8270D  | Isophorone                            | 0.00029    | U F2     | 0.00029  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | Naphthalene                           | 0.00024    | U        | 0.00024  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Nitrobenzene                          | 0.00034    | U        | 0.00034  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.00038 | mg/L  | 0.00038    | U        |
| EOS-SW05-031722 | 8270D  | N-Nitrosodiphenylamine                | 0.00028    | U F2     | 0.00028  | 0.0015  | mg/L  | 0.0015     | U        |
| EOS-SW05-031722 | 8270D  | Pentachlorophenol                     | 0.003      | U F2     | 0.003    | 0.015   | mg/L  | 0.015      | U        |
| EOS-SW05-031722 | 8270D  | Phenanthrene                          | 0.00023    | U F2     | 0.00023  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW05-031722 | 8270D  | Phenol                                | 0.00052    | U F2     | 0.00052  | 0.0038  | mg/L  | 0.0038     | U        |
| EOS-SW05-031722 | 8270D  | Pyrene                                | 0.00033    | U        | 0.00033  | 0.00077 | mg/L  | 0.00077    | U        |
| EOS-SW06-031722 | 8015C  | Diesel Range Organics [C10-C28]       | 0.16       | J        | 0.1      | 0.4     | mg/L  | 0.16       | J        |
| EOS-SW06-031722 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW06-031722 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.79    | mg/L  | 0.79       | U        |
| EOS-SW06-031722 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW06-031722 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
 EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW06-031722 | 8260B  | 1,3-Dichlorobenzene       | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031722 | 8260B  | Acetone                   | 0.0049     | J        | 0.0017  | 0.01   | mg/L  | 0.0049     | J        |
| EOS-SW06-031722 | 8260B  | Benzene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031722 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031722 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031722 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031722 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031722 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031722 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031722 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031722 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031722 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031722 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Toluene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031722 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Trichloroethene           | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031722 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031722 | 8270D  | 1,1'-Biphenyl                | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 2,4,6-Trichlorophenol        | 0.00056    | U        | 0.00056  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | 2,4-Dichlorophenol           | 0.002      | U        | 0.002    | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 2,4-Dinitrophenol            | 0.0068     | U        | 0.0068   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031722 | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U        | 0.00019  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | 2,6-Dinitrotoluene           | 0.000058   | U        | 0.000058 | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | 2-Chloronaphthalene          | 0.00018    | U        | 0.00018  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | 2-Chlorophenol               | 0.00044    | U *+     | 0.00044  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | 2-Methylnaphthalene          | 0.000078   | J        | 0.000051 | 0.0016  | mg/L  | 0.000078   | J        |
| EOS-SW06-031722 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | 2-Nitrophenol                | 0.002      | U *+     | 0.002    | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 3 & 4 Methylphenol           | 0.00035    | U        | 0.00035  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0013     | U        | 0.0013   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | 3-Nitroaniline               | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0046     | U        | 0.0046   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031722 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00042    | U        | 0.00042  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.0005     | U        | 0.0005   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | 4-Nitrophenol                | 0.0058     | U        | 0.0058   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031722 | 8270D  | Acenaphthene                 | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | Acenaphthylene               | 0.00021    | U        | 0.00021  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | Acetophenone                 | 0.00052    | U        | 0.00052  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Anthracene                   | 0.00026    | U        | 0.00026  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | Atrazine                     | 0.00049    | U        | 0.00049  | 0.0039  | mg/L  | 0.0039     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
 EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031722 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.031   | mg/L  | 0.031      | U        |
| EOS-SW06-031722 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031722 | 8270D  | Benzo[a]pyrene              | 0.000078   | U        | 0.000078 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031722 | 8270D  | Benzo[b]fluoranthene        | 0.000063   | U        | 0.000063 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031722 | 8270D  | Benzo[g,h,i]perylene        | 0.00029    | U        | 0.00029  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | Benzo[k]fluoranthene        | 0.00005    | U        | 0.00005  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031722 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00022    | U        | 0.00022  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0013     | U        | 0.0013   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Chrysene                    | 0.000054   | U        | 0.000054 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031722 | 8270D  | Dibenz(a,h)anthracene       | 0.00004    | U        | 0.00004  | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW06-031722 | 8270D  | Dibenzofuran                | 0.00021    | U        | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | Diethyl phthalate           | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Di-n-butyl phthalate        | 0.00057    | U        | 0.00057  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Di-n-octyl phthalate        | 0.00083    | U        | 0.00083  | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW06-031722 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | Fluorene                    | 0.00019    | U        | 0.00019  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | Hexachlorobenzene           | 0.000062   | U        | 0.000062 | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW06-031722 | 8270D  | Hexachlorobutadiene         | 0.0004     | U        | 0.0004   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Hexachlorocyclopentadiene   | 0.005      | U        | 0.005    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031722 | 8270D  | Hexachloroethane            | 0.00047    | U        | 0.00047  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.000059   | U        | 0.000059 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031722 | 8270D  | Isophorone                  | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | Naphthalene                 | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | Nitrobenzene                | 0.00035    | U        | 0.00035  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW06-031722 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW06-031722 | 8270D  | N-Nitrosodiphenylamine      | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031722 | 8270D  | Pentachlorophenol           | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031722 | 8270D  | Phenanthrene                | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |

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| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|---------|-------|------------|----------|
| EOS-SW06-031722 | 8270D  | Phenol                                | 0.00053    | U        | 0.00053 | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031722 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034 | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW07-031722 | 8015C  | Diesel Range Organics [C10-C28]       | 0.12       | J        | 0.096   | 0.38    | mg/L  | 0.12       | J        |
| EOS-SW07-031722 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW07-031722 | 8015C  | Oil Range Organics (C20-C34)          | 0.38       | U        | 0.38    | 0.76    | mg/L  | 0.76       | U        |
| EOS-SW07-031722 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW07-031722 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW07-031722 | 8260B  | Acetone                               | 0.0017     | U        | 0.0017  | 0.01    | mg/L  | 0.010      | U        |
| EOS-SW07-031722 | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW07-031722 | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW07-031722 | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002   | mg/L  | 0.0020     | U        |
| EOS-SW07-031722 | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002   | mg/L  | 0.0020     | U        |
| EOS-SW07-031722 | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 | 0.001   | mg/L  | 0.0010     | U        |

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|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW07-031722 | 8260B  | Cyclohexane                  | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031722 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031722 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031722 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031722 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031722 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031722 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031722 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031722 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031722 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U        | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U        | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW07-031722 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | 2-Chlorophenol               | 0.00045    | U*+      | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | 2-Methylnaphthalene          | 0.000052   | U        | 0.000052 | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |

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|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031722 | 8270D  | 2-Nitroaniline              | 0.001      | U        | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | 2-Nitrophenol               | 0.002      | U *+     | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | 3-Nitroaniline              | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031722 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U        | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031722 | 8270D  | Acenaphthene                | 0.00025    | U        | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Acenaphthylene              | 0.00021    | U        | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Atrazine                    | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW07-031722 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031722 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031722 | 8270D  | Benzo[b]fluoranthene        | 0.000064   | U        | 0.000064 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031722 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031722 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Chrysene                    | 0.000054   | U        | 0.000054 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031722 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW07-031722 | 8270D  | Dibenzofuran                | 0.00021    | U        | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |

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EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031722 | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Di-n-octyl phthalate                  | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW07-031722 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Fluorene                              | 0.00019    | U        | 0.00019  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Hexachlorobenzene                     | 0.000063   | U        | 0.000063 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031722 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U        | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031722 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031722 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | Naphthalene                           | 0.00025    | U        | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Nitrobenzene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW07-031722 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031722 | 8270D  | Pentachlorophenol                     | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031722 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031722 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW07-031722 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031722 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        | 0.1      | 0.4     | mg/L  | 0.40       | U        |
| EOS-SW08-031722 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW08-031722 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW08-031722 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031722 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW08-031722 | 8260B  | 1,2-Dichloropropane       | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,3-Dichlorobenzene       | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031722 | 8260B  | Acetone                   | 0.0017     | U        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW08-031722 | 8260B  | Benzene                   | 0.00022    | J        | 0.00015 | 0.0005 | mg/L  | 0.00022    | J        |
| EOS-SW08-031722 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW08-031722 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW08-031722 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW08-031722 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW08-031722 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031722 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031722 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031722 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031722 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031722 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Toluene                   | 0.00092    |          | 0.00015 | 0.0005 | mg/L  | 0.00092    |          |
| EOS-SW08-031722 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031722 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW08-031722 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722 | 8260B  | Xylenes, Total               | 0.0011     |          | 0.00022  | 0.001   | mg/L  | 0.0011     |          |
| EOS-SW08-031722 | 8270D  | 1,1'-Biphenyl                | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 2,4,6-Trichlorophenol        | 0.00056    | U        | 0.00056  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | 2,4-Dichlorophenol           | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 2,4-Dinitrophenol            | 0.0067     | U        | 0.0067   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722 | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | 2,6-Dinitrotoluene           | 0.000058   | U        | 0.000058 | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | 2-Chloronaphthalene          | 0.00018    | U        | 0.00018  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | 2-Chlorophenol               | 0.00044    | U *+     | 0.00044  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | 2-Methylnaphthalene          | 0.00011    | J        | 0.000051 | 0.0016  | mg/L  | 0.00011    | J        |
| EOS-SW08-031722 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | 2-Nitrophenol                | 0.002      | U *+     | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 3 & 4 Methylphenol           | 0.00035    | U        | 0.00035  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0013     | U        | 0.0013   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | 3-Nitroaniline               | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0046     | U        | 0.0046   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00042    | U        | 0.00042  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.0005     | U        | 0.0005   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | 4-Nitrophenol                | 0.0058     | U        | 0.0058   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722 | 8270D  | Acenaphthene                 | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | Acenaphthylene               | 0.00021    | U        | 0.00021  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | Acetophenone                 | 0.00052    | U        | 0.00052  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Anthracene                   | 0.00026    | U        | 0.00026  | 0.00078 | mg/L  | 0.00078    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031722 | 8270D  | Atrazine                    | 0.00049    | U        | 0.00049  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.031   | mg/L  | 0.031      | U        |
| EOS-SW08-031722 | 8270D  | Benzo[a]anthracene          | 0.000044   | U        | 0.000044 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722 | 8270D  | Benzo[a]pyrene              | 0.000078   | U        | 0.000078 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722 | 8270D  | Benzo[b]fluoranthene        | 0.000063   | U        | 0.000063 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722 | 8270D  | Benzo[g,h,i]perylene        | 0.00029    | U        | 0.00029  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | Benzo[k]fluoranthene        | 0.00005    | U        | 0.00005  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00022    | U        | 0.00022  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Chrysene                    | 0.000053   | U        | 0.000053 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722 | 8270D  | Dibenz(a,h)anthracene       | 0.00004    | U        | 0.00004  | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW08-031722 | 8270D  | Dibenzofuran                | 0.00021    | U        | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | Diethyl phthalate           | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Di-n-butyl phthalate        | 0.00057    | U        | 0.00057  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Di-n-octyl phthalate        | 0.00082    | U        | 0.00082  | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW08-031722 | 8270D  | Fluoranthene                | 0.00036    | U        | 0.00036  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | Fluorene                    | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | Hexachlorobenzene           | 0.000062   | U        | 0.000062 | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW08-031722 | 8270D  | Hexachlorobutadiene         | 0.0004     | U        | 0.0004   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Hexachlorocyclopentadiene   | 0.005      | U        | 0.005    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722 | 8270D  | Hexachloroethane            | 0.00047    | U        | 0.00047  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.000059   | U        | 0.000059 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722 | 8270D  | Isophorone                  | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | Naphthalene                 | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | Nitrobenzene                | 0.00035    | U        | 0.00035  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW08-031722 | 8270D  | N-Nitrosodiphenylamine      | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722 | 8270D  | Pentachlorophenol           | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID         | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL      | Units | Val Result | Val Qual |
|-------------------|--------|---------------------------------------|------------|----------|---------|---------|-------|------------|----------|
| EOS-SW08-031722   | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024 | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722   | 8270D  | Phenol                                | 0.00053    | U        | 0.00053 | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW08-031722   | 8270D  | Pyrene                                | 0.00033    | U        | 0.00033 | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW08-031722-D | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        | 0.1     | 0.41    | mg/L  | 0.41       | U        |
| EOS-SW08-031722-D | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW08-031722-D | 8015C  | Oil Range Organics (C20-C34)          | 0.41       | U        | 0.41    | 0.82    | mg/L  | 0.82       | U        |
| EOS-SW08-031722-D | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031722-D | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031722-D | 8260B  | Acetone                               | 0.0032     | J        | 0.0017  | 0.01    | mg/L  | 0.0032     | J        |
| EOS-SW08-031722-D | 8260B  | Benzene                               | 0.00021    | J        | 0.00015 | 0.0005  | mg/L  | 0.00021    | J        |
| EOS-SW08-031722-D | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW08-031722-D | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002   | mg/L  | 0.0020     | U        |
| EOS-SW08-031722-D | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002   | mg/L  | 0.0020     | U        |
| EOS-SW08-031722-D | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID         | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-------------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031722-D | 8260B  | cis-1,3-Dichloropropene      | 0.00042    | U        | 0.00042  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Cyclohexane                  | 0.00049    | U        | 0.00049  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW08-031722-D | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW08-031722-D | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031722-D | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031722-D | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031722-D | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW08-031722-D | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Toluene                      | 0.00088    |          | 0.00015  | 0.0005  | mg/L  | 0.00088    |          |
| EOS-SW08-031722-D | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW08-031722-D | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW08-031722-D | 8260B  | Xylenes, Total               | 0.0011     |          | 0.00022  | 0.001   | mg/L  | 0.0011     |          |
| EOS-SW08-031722-D | 8270D  | 1,1'-Biphenyl                | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U        | 0.00057  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 2,4-Dinitrophenol            | 0.0068     | U        | 0.0068   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722-D | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U        | 0.00019  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | 2,6-Dinitrotoluene           | 0.000058   | U        | 0.000058 | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | 2-Chlorophenol               | 0.00044    | U *+     | 0.00044  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | 2-Methylnaphthalene          | 0.00011    | J        | 0.000052 | 0.0016  | mg/L  | 0.00011    | J+       |

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EUROFINS REPORT NO. J213894-1

| Sample ID         | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-------------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031722-D | 8270D  | 2-Methylphenol              | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | 2-Nitroaniline              | 0.001      | U        | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | 2-Nitrophenol               | 0.002      | U *+     | 0.002    | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | 3-Nitroaniline              | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722-D | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 4-Chlorophenyl phenyl ether | 0.0005     | U        | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722-D | 8270D  | Acenaphthene                | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Acenaphthylene              | 0.00021    | U        | 0.00021  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Anthracene                  | 0.00026    | U        | 0.00026  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Atrazine                    | 0.00049    | U        | 0.00049  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW08-031722-D | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722-D | 8270D  | Benzo[a]pyrene              | 0.000078   | U        | 0.000078 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722-D | 8270D  | Benzo[b]fluoranthene        | 0.000064   | U        | 0.000064 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722-D | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722-D | 8270D  | Bis(2-chloroethoxy)methane  | 0.00022    | U        | 0.00022  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Chrysene                    | 0.000054   | U        | 0.000054 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722-D | 8270D  | Dibenz(a,h)anthracene       | 0.00004    | U        | 0.00004  | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW08-031722-D | 8270D  | Dibenzofuran                | 0.00021    | U        | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID         | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-------------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031722-D | 8270D  | Diethyl phthalate                     | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Di-n-octyl phthalate                  | 0.00083    | U        | 0.00083  | 0.0079  | mg/L  | 0.0079     | U        |
| EOS-SW08-031722-D | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Fluorene                              | 0.00019    | U        | 0.00019  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Hexachlorobenzene                     | 0.000063   | U        | 0.000063 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031722-D | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Hexachlorocyclopentadiene             | 0.005      | U        | 0.005    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722-D | 8270D  | Hexachloroethane                      | 0.00047    | U        | 0.00047  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.000059   | U        | 0.000059 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031722-D | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | Naphthalene                           | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Nitrobenzene                          | 0.00036    | U        | 0.00036  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031722-D | 8270D  | N-Nitrosodiphenylamine                | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031722-D | 8270D  | Pentachlorophenol                     | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031722-D | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-SW08-031722-D | 8270D  | Phenol                                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031722-D | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.00079 | mg/L  | 0.00079    | U        |
| EOS-TB06-031722   | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-TB06-031722   | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031722   | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
 EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-TB06-031722 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031722 | 8260B  | Acetone                   | 0.0017     | U        | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-TB06-031722 | 8260B  | Benzene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB06-031722 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-TB06-031722 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-TB06-031722 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-TB06-031722 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-TB06-031722 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB06-031722 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031722 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031722 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031722 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031722 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Toluene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB06-031722 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Trichloroethene           | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB06-031722 | 8260B  | Trichlorofluoromethane    | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J213894-1

| Sample ID       | Method | Analyte        | Lab Result | Lab Qual | MDL     | RL    | Units | Val Result | Val Qual |
|-----------------|--------|----------------|------------|----------|---------|-------|-------|------------|----------|
| EOS-TB06-031722 | 8260B  | Vinyl chloride | 0.0002     | U        | 0.0002  | 0.001 | mg/L  | 0.0010     | U        |
| EOS-TB06-031722 | 8260B  | Xylenes, Total | 0.00022    | U        | 0.00022 | 0.001 | mg/L  | 0.0010     | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213894-1

Method: 8260B

| Validation Element                                                                                                                                                                  | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                              | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                 | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 3/10/2022, Inst. CMS18                                    | See Ical recalculation sheet below                                                                                         |
|                                                                                                                                                                                     | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 3/10/2022, Inst. CMS18                                    | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                     | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 325, Batch 646445<br>3/10/2022, CMS18, chloroethane    | Reported chloroethane 5 ug/l RRF: 0.1700<br>$(12511*50)/(735821*5) = 0.1700$                                               |
|                                                                                                                                                                                     |                                                                                                                                                                                                            | L4 Page 325, Batch 646445<br>3/10/2022, CMS18, chloroethane    | Reported chloroethane ave. RRF: 0.1841<br>$(0.1891+0.2071+0.17+0.1623+0.1813+0.1813+0.2015+0.1621+0.1999)/9 = 0.1841$      |
|                                                                                                                                                                                     | L4 Page 325, Batch 646445<br>3/10/2022, CMS18, chloroethane                                                                                                                                                | Reported chloroethane %RSD = 9.8<br>$(0.018/0.1841)*100 = 9.8$ |                                                                                                                            |
| Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the |                                                                                                                                                                                                            |                                                                |                                                                                                                            |
| <b>SHOW ALL WORK FOR RECALCULATIONS</b>                                                                                                                                             |                                                                                                                                                                                                            |                                                                |                                                                                                                            |
| Tune                                                                                                                                                                                | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | L4 Pg. 775-776, LIMS ID BFB, 03/21/2022 at 08:53               | m/z 96 = 6.6%<br>$(1760/26504)*100 = 6.6%$                                                                                 |
| ICV                                                                                                                                                                                 | Check result                                                                                                                                                                                               | L4 Pg. 708, LIMS ID ICV1, 3/11/2022 at 09:52                   | chloroethane Conc. = 53.9 ug/l<br>$(140268*50)/(706175*0.1841) = 53.9 \text{ ug/l}$                                        |
|                                                                                                                                                                                     | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 708, LIMS ID ICV1, 3/11/2022 at 09:52                   | chloroethane RRF. = 0.1986<br>$(140268*50)/(706175*50) = 0.1986$                                                           |
|                                                                                                                                                                                     | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 708, LIMS ID ICV1, 3/11/2022 at 09:52                   | chloroethane %D = 7.9%<br>$(\text{abs}(0.1986-0.1841)/0.1841)*100 = 7.9\%$                                                 |
| A CCV applicable to our samples                                                                                                                                                     | Check result                                                                                                                                                                                               | L4 Pg. 717-720, CCVIS 500-647897/3, 03/21/2022 at 10:00        | chloroethane Conc. = 51.9 ug/l<br>$(127830*50)/(668907*0.1841) = 51.9 \text{ ug/l}$                                        |
|                                                                                                                                                                                     | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 717-720, CCVIS 500-647897/3, 03/21/2022 at 10:00        | Chloroethane CCRF = 0.1911<br>$(127830*50)/(668907*50 \text{ ug/l}) = 0.1911$                                              |
|                                                                                                                                                                                     | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 717-720, CCVIS 500-647897/3, 03/21/2022 at 10:00        | Chloroethane %D = 3.8%<br>$(\text{abs}(0.1911-0.1841)/0.1841)*100 = 3.8\%$                                                 |
| Method Blank                                                                                                                                                                        | Check result                                                                                                                                                                                               | NA - no detects                                                |                                                                                                                            |
| Surrogate                                                                                                                                                                           | Recalculate one %R                                                                                                                                                                                         | L4 Pg. 274, EOS-SW05-031722<br>03/21/2022 12:29                | 1,2-Dichloroethane-d4 %R = 96%<br>$(48 \text{ ug/l}/50 \text{ ug/l})*100 = 96\%$                                           |
| MS                                                                                                                                                                                  | Check result                                                                                                                                                                                               | L4 Pg. 813-818, Sample: 500-213894-1 MS<br>03/21/2022 13:15    | chloroethane Conc. = 0.0314 mg/l<br>$(68228*50 \text{ ug/l})/(409631*0.2653)/(1000 \text{ ug/mg}) = 0.0314 \text{ mg/l}$   |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213894-1

Method: 8260B

|                                                           |                                                   |                                                                 |                                                                                                |
|-----------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                                           | Recalculate one %R                                | L2 Pg. 40 , Sample: 500-213894-1 MS<br>03/21/2022 13:15         | chloroethane %R = 63%<br>(0.0314 mg/l/0.0500 mg/l)*100 = 63%                                   |
| MSD                                                       | Check result                                      | L4 Pg. 820-822 Sample: 500-213894-1 MSD<br>03/21/2022 at 13:38  | chloroethane Conc. = 0.0268 mg/l<br>(57400*50 ug/l)/(403798*0.2653)/(1000ug/mg) = 0.0268 mg/l  |
|                                                           | Recalculate one %R                                | L2 Pg. 41, Sample: 500-213894-1 MSD<br>03/21/2022 13:38         | chloroethane %R = 54%<br>(0.0268 mg/l/0.0500 mg/l)*100 = 54%                                   |
|                                                           | Recalculate one RPD value<br>between MS and MSD   | L2 Pg. 41, Sample: 500-213894-1 MSD<br>03/21/2022 13:38         | chloroethane RPD = 16%<br>abs(0.0268 mg/l-0.0314 mg/l)/((0.0268 mg/l+0.0314 mg/l)/2)*100 = 16% |
| LCS                                                       | Check result                                      | L4 Pg. 796-799, Sample: LCS 500-647897/5<br>03/21/2022 at 10:48 | chloroethane Conc. = 0.0512 mg/l<br>(125882*50 ug/l)/(667027*0.1841)/(1000ug/mg) = 0.0512 mg/l |
|                                                           | Recalculate one %R                                | L2 Pg. 36, Sample: LCS 500-647897/5<br>03/21/2022 at 10:48      | chloroethane %R = 102%<br>(0.0512 mg/l/0.0500 mg/l)*100 = 102%                                 |
| LCSD                                                      | Check result                                      | NA - No LCSD                                                    |                                                                                                |
|                                                           | Recalculate one %R                                | NA - No LCSD                                                    |                                                                                                |
|                                                           | Recalculate one RPD value<br>between LCS and LCSD | NA - No LCSD                                                    |                                                                                                |
| Internal Standards                                        | Recalculate one %R                                | NA - %Rs were not provided                                      | IS areas were evaluated and were within acceptable limits.                                     |
|                                                           | Recalculate one delta RT                          | NA - %Rs were not provided                                      | IS RTs were evaluated and were within acceptable limits.                                       |
| Sample Result for<br>EOS-SW05-031722                      | Check result                                      | L4 Pg. 270-272,<br>03/21/2022 at 12:29                          | Acetone Conc. = 0.0038 mg/l<br>(2283*50 ug/l)/(401255*0.0748)/(1000ug/mg) = 0.0038 mg/l        |
| MDL for _____                                             | Check result                                      | NA - MDLs no change for aqueous undiluted<br>samples            |                                                                                                |
| RL for _____                                              | Check result                                      | NA - RLs no change for aqueous undiluted<br>samples             |                                                                                                |
| Convert µg/m <sup>3</sup> to ppbV (air only) for<br>_____ | Check result                                      | NA                                                              |                                                                                                |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**Report No: J213894-1**

| Initial Calibration  | VOC          |        |            |        |        |        |        |        |
|----------------------|--------------|--------|------------|--------|--------|--------|--------|--------|
| Inst. CMS18          | chloroethane |        | L4 Pg. 325 |        |        |        |        |        |
| Concentration (ug/L) | 1.0          | 2.0    | 5.0        | 20.0   | 50.0   | 100.0  | 150.0  | 200.0  |
| Rf                   | 0.1891       | 0.2071 | 0.1700     | 0.1623 | 0.1813 | 0.2015 | 0.1621 | 0.1999 |

|         |        |   |
|---------|--------|---|
| Std Dev | 0.0180 |   |
| Mean Rf | 0.184  | ✓ |
| %RSD    | 9.78   | ✓ |

Concentration 5 (ug/L) Rf Check

|                                                            |            |            |
|------------------------------------------------------------|------------|------------|
| chloroethane area = 12511, 5.0 ug/L                        | L4 Pg. 331 |            |
| Fluorobenzene (internal standard) area = 735821, 50.0 ug/L | L4 Pg. 412 |            |
| $\frac{12511}{735821}$                                     | x          | 50.0 ug/L  |
|                                                            | x          | 5.0 ug/L   |
|                                                            |            | = 0.1700 ✓ |

Concentration 100 (ug/L) Rf Check

|                                                           |            |            |
|-----------------------------------------------------------|------------|------------|
| chloroethane area = 281794, 100 ug/L                      | L4 Pg. 331 |            |
| Fluorobenzene (internal standard) area = 699338, 100 ug/L | L4 Pg. 412 |            |
| $\frac{281794}{699338}$                                   | x          | 50.0 ug/L  |
|                                                           | x          | 100 ug/L   |
|                                                           |            | = 0.2015 ✓ |

**Report No: J213894-1**

VOC by 8260B - Initial Calibration

3/10/2022

**Instrument CMS18**

**ACETONE**

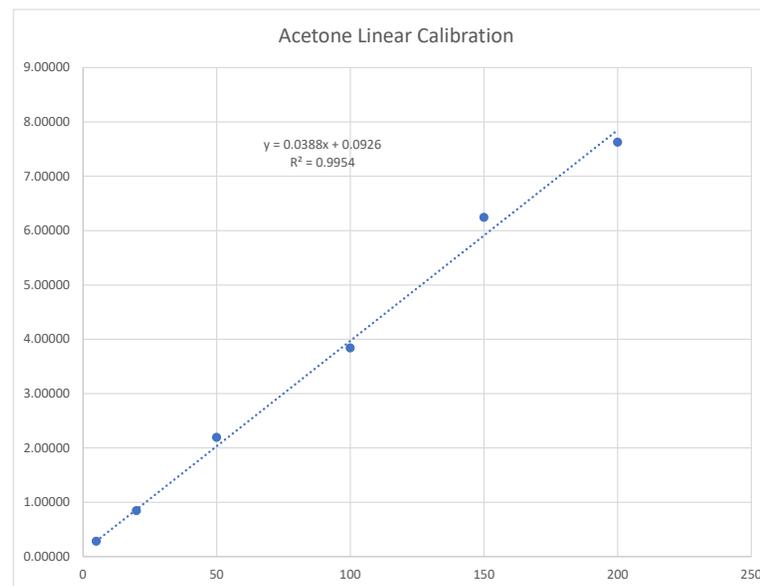
**Weighted Linear Regression (1/A)**

Page(s): 419

| C(ug/L) <sub>x</sub> | C(ug/L) <sub>IS</sub> | Conc. Ratio<br>(C <sub>x</sub> /C <sub>IS</sub> ) | A <sub>x</sub> | A <sub>IS</sub> | Resp. Ratio<br>(A <sub>x</sub> /A <sub>IS</sub> ) | Rel Resp. |
|----------------------|-----------------------|---------------------------------------------------|----------------|-----------------|---------------------------------------------------|-----------|
| 5                    | 50                    | 0.1000                                            | 4171           | 735821          | 0.00567                                           | 0.28342   |
| 20                   | 50                    | 0.4000                                            | 12331          | 728509          | 0.01693                                           | 0.84632   |
| 50                   | 50                    | 1.0000                                            | 28478          | 648278          | 0.04393                                           | 2.19643   |
| 100                  | 50                    | 2.0000                                            | 53709          | 699338          | 0.07680                                           | 3.83999   |
| 150                  | 50                    | 3.0000                                            | 83079          | 665164          | 0.12490                                           | 6.24500   |
| 200                  | 50                    | 4.0000                                            | 106631         | 699086          | 0.15253                                           | 7.62646   |

Slope: 0.0388  
 Intercept: 0.0926  
 r: 0.99770  
 r<sup>2</sup>: 0.99540

6103.00000  
 876973.00000



\*(X) = target analyte

\*(IS) = internal standard

ICV Recalc

L4 Pg. 708-710

Conc. = (((Target Area/IS Area)\*IS Conc.)-intercept)/slope

| RespX | RespIS | Conc.IS | On Column Amt (ugl) |
|-------|--------|---------|---------------------|
| 28401 | 706175 | 50      | 49.1739             |
| 6605  | 636197 | 50      | 10.9323             |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213894-1

Method: 8270D

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                             | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 3/10/2022, Inst. CMS18                                   | See Ical recalculation sheet below                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 2/22/2022, Inst. CMS01                                   | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 917, Batch 643802<br>2/22/2022, CMS01, phenol         | Reported phenol 4.0 ug/l RRF: 1.3003<br>$(627844 * 3.2 \text{ ug/ml}) / (386287 * 4 \text{ ug/ml}) = 1.3003$                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                            | L4 Page 917, Batch 643802<br>2/22/2022, CMS01, phenol         | Reported phenol ave. RRF: 1.2463<br>$(1.1690 + 1.1276 + 0.9782 + 1.1812 + 1.3003 + 1.3340 + 1.4378 + 1.3587 + 1.3302) / 9 = 1.2463$ |
| L4 Page 917, Batch 643802<br>2/22/2022, CMS01, phenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reported phenol %RSD = 11.5%<br>$(0.1428 / 1.2463) * 100 = 11.5\%$                                                                                                                                         |                                                               |                                                                                                                                     |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="center"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                               |                                                                                                                                     |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm DFTPP Percent Relative Abundance                                                                                                                                                                   | L4 Pg. 1317, LIMS ID DFTPP,<br>3/19/2022 at 11:20             | m/z 199 = 6.9%<br>$(37368 / 541184) * 100 = 6.9\%$                                                                                  |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Check result                                                                                                                                                                                               | L4 Pg. 1253, LIMS ID icv,<br>2/22/2022 at 15:25               | phenol Conc. = 7.48 ug/ml<br>$(934977 * 3.2 \text{ ug/ml}) / (321083 * 1.2463) = 7.48 \text{ ug/ml}$                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 1253, Samp ID ICV 500-643802/13,<br>2/22/2022 at 15:25 | phenol RRF. = 1.331<br>$(934977 * 3.2 \text{ ug/ml}) / (321083 * 7.0 \text{ ug/ml}) = 1.331$                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1253, Samp ID ICV 500-643802/13,<br>2/22/2022 at 15:25 | phenol %D = 6.8%<br>$(\text{abs}(1.331 - 1.2463) / 1.2463) * 100 = 6.8\%$                                                           |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Check result                                                                                                                                                                                               | L4 Pg. 1281, CCVIS 500-647794/2,<br>03/19/2022 at 11:44       | phenol Conc. = 8.28 ug/ml<br>$(986199 * 3.2 \text{ ug/ml}) / (305631 * 1.2463) = 8.28 \text{ ug/ml}$                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 1281, CCVIS 500-647794/2,<br>03/19/2022 at 11:44       | phenol CCRF = 1.475<br>$(986199 * 3.2 \text{ ug/ml}) / (305631 * 7.0 \text{ ug/ml}) = 1.475$                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1281, CCVIS 500-647794/2,<br>03/19/2022 at 11:44       | phenol %D = 18.4%<br>$(\text{abs}(1.2463 - 1.475) / 1.2463) * 100 = 18.4\%$                                                         |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Check result                                                                                                                                                                                               | NA - no detects                                               |                                                                                                                                     |
| Surrogate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Recalculate one %R                                                                                                                                                                                         | L4 Pg. 868, EOS-SW05-031722<br>3/19/2022 at 14:57             | Phenol-d5 %R = 43%<br>$(4.34 \text{ ug/ml} / 10 \text{ ug/ml}) * 100 = 43\%$                                                        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J213894-1

Method: 8270D

|                                                  |                                                |                                                            |                                                                                                                                             |
|--------------------------------------------------|------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| MS                                               | Check result                                   | L4 Pg. 1340, Sample: 500-213894-1 MS, 03/19/2022 15:21     | phenol Conc. = 0.0257 mg/l<br>(748211*3.2 ug/ml)/(287402*1.2463) = 6.68 ug/ml<br>= (6.68 ug/ml/260.4 ml) = 0.0257 mg/l                      |
|                                                  | Recalculate one %R                             | L2 Pg. 45, Sample: 500-213894-1 MS, 03/19/2022 15:21       | phenol %R = 84%<br>(0.0257 mg/l/0.032 mg/l)*100 = 84%                                                                                       |
| MSD                                              | Check result                                   | L4 Pg. 1350, Sample: 500-213894-1 MSD, 03/19/2022 15:45    | phenol Conc. = 0.0190 mg/l<br>(540365*3.2 ug/ml)/(280425*1.2463) = 4.95 ug/ml<br>= (4.95 ug/ml/260.2 ml) = 0.0190 mg/l                      |
|                                                  | Recalculate one %R                             | L2 Pg. 47, Sample: 500-213894-1 MSD, 03/19/2022 15:45      | phenol %R = 62%<br>(0.0190 mg/l/0.0307 mg/l)*100 = 62%                                                                                      |
|                                                  | Recalculate one RPD value between MS and MSD   | L2 Pg. 47, Sample: 500-213894-1 MSD, 03/19/2022 15:45      | phenol RPD = 30%<br>abs(0.0190 mg/l-0.0257 mg/l)/((0.019 mg/l+0.0257 mg/l)/2)*100 = 30%                                                     |
| LCS                                              | Check result                                   | L4 Pg. 1331, Sample: LCS 500-647787/2-A 3/19/2022 at 13:44 | phenol Conc. = 0.0246 mg/l<br>(695629*3.2 ug/ml)/(290211*1.2463) = 6.15 ug/ml<br>= (6.15 ug/ml/250 ml) = 0.0246 mg/l                        |
|                                                  | Recalculate one %R                             | L2 Pg. 44, Sample: LCS 500-647787/2-A 3/19/2022 at 13:44   | phenol %R = 77%<br>(0.0246 mg/l/0.032 mg/l)*100 = 77%                                                                                       |
| LCSD                                             | Check result                                   | NA                                                         |                                                                                                                                             |
|                                                  | Recalculate one %R                             | NA                                                         |                                                                                                                                             |
|                                                  | Recalculate one RPD value between LCS and LCSD | NA                                                         |                                                                                                                                             |
| Internal Standards                               | Recalculate one %R                             | NA - %Rs were not provided                                 | IS areas were evaluated and were within acceptable limits.                                                                                  |
|                                                  | Recalculate one delta RT                       | NA - %Rs were not provided                                 | IS RTs were evaluated and were within acceptable limits.                                                                                    |
| Sample Result for EOS-SW05-031722                | Check result                                   | L4 Pg. 863-867, 03/19/2022 14:57                           | 2-methylnaphthalene Conc. = 0.000062 mg/l<br>(3005*3.2 ug/ml)/(885975*0.6687) = 0.01623 ug/ml<br>= (0.01623 ug/ml/260.2 ml) = 0.000062 mg/l |
| MDL for _____                                    | Check result                                   | NA - MDLs no change for aqueous undiluted samples          |                                                                                                                                             |
| RL for _____                                     | Check result                                   | NA - RLs no change for aqueous undiluted samples           |                                                                                                                                             |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                   | NA                                                         |                                                                                                                                             |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**J213894-1**

Initial Calibration 2/22/2022

SVOC

Inst. CMS01

phenol

pg. 944

Concentration (ug/mL)

0.1

0.2

1.0

2.0

4.0

8.0

10.0

12.0

14.0

Rf

1.1690

1.1276

0.9782

1.1812

1.3003

1.3340

1.4378

1.3587

1.3302

Std Dev

0.1428

Mean Rf

1.2463



%RSD

11.5



Concentration 0.2 (ug/mL) Rf Check

phenol area = 15016, 0.2 ug/mL

pg. 950

1,4-dichlorobenzene-d4 (internal standard) area = 213060, 3.2 ug/mL (pg. 1154)

15016

x

3.2 ug/mL

=

1.1276



---

213060

x

0.2 ug/mL

Concentration 8.0 (ug/mL) Rf Check

phenol area = 1431826, 8.0 ug/mL

pg. 950

1,4-dichlorobenzene-d4 (internal standard) area = 429340, 3.2 ug/mL (pg. 1154)

1431826

x

3.2 ug/mL

=

1.334



---

429340

x

8.0 ug/mL

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

**Data Package Number: J213894-1**

**Method: 8015C**

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                            | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 4/10/2021, INST13-14                                    | See Ical linear regression recalculation                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 4/10/2021, INST13-14                                    | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 1398-1451<br>Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 1398-1451<br>Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 1398-1451<br>Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                              |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB/DFTPP Percent Relative Abundance                                                                                                                                                               | NA                                                           |                                                                                                                            |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Pg. 1449, Sample: ICV 500-592618/11<br>4/10/2021 at 18:59 | GRO Conc. = 363 ug/l<br>(20672016-495016.43)/55585.941 = 363 ug/l                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | NA                                                           | RFs not applicable                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1449, Sample: ICV 500-592618/11<br>4/10/2021 at 18:59 | GRO %D = -10.1%<br>(363 ug/l - 404 ug/l)/404 ug/l)*100 = -10.1%                                                            |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Pg. 1457, Sample: CCV 500-647826/2<br>03/20/2022 at 14:50 | GRO Conc. = 381 ug/l<br>(21695472-495016.43)/55585.941 = 381 ug/l                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | NA                                                           | RFs not applicable                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1457, Sample: CCV 500-647826/2<br>03/20/2022 at 14:50 | GRO %D = -4.7%<br>(381 ug/l - 400 ug/l)/400 ug/l)*100 = -4.7%                                                              |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

**Data Package Number: J213894-1**

**Method: 8015C**

|                                                               |                                                |                                                              |                                                                                        |
|---------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Method Blank                                                  | Check result                                   | L4 Pg. 1481, Sample: MB 500-647826/3<br>03/20/2022 at 15:25  | GRO not detected                                                                       |
| Surrogate                                                     | Recalculate one %R                             | L4 Pg. 1370, Sample: EOS-SW05-031722<br>03/20/2022 at 17:13  | 4-Bromofluorobenzene %R = 97%<br>(19.5 ug/l/20 ug/l)*100 = 97%                         |
| MS                                                            | Check result                                   | L4 Pg. 1490, Lab ID: 500-213894-1 MS<br>03/20/2022 at 17:49  | GRO Conc. = 0.343 mg/l<br>((19557685-495016.43)/55585.941)/1000 ug/mg = 0.343 mg/l     |
|                                                               | Recalculate one %R                             | L2 Pg. 49, Lab ID: 500-213894-1 MS<br>03/20/2022 at 17:49    | GRO %R = 85%<br>(0.343 mg/l/0.403 mg/l)*100 = 85%                                      |
| MSD                                                           | Check result                                   | L4 Pg. 1495, Lab ID: 500-213894-1 MS<br>03/20/2022 at 18:25  | GRO Conc. = 0.348 mg/l<br>((19865486-495016.43)/55585.941)/1000 ug/mg = 0.348 mg/l     |
|                                                               | Recalculate one %R                             | L2 Pg. 49, Lab ID: 500-213894-1 MSD<br>03/20/2022 at 18:25   | GRO %R = 86%<br>(0.348 mg/l/0.403 mg/l)*100 = 86%                                      |
|                                                               | Recalculate one RPD value between MS and MSD   | L2 Pg. 49, Lab ID: 500-213894-1 MSD<br>03/20/2022 at 18:25   | GRO RPD = 2%<br>(abs(0.343 mg/l-0.348 mg/l)/((0.343 mg/l+0.348 mg/l)/2))*100 = 2%      |
| LCS                                                           | Check result                                   | L4 Pg. 1485, Lab ID: LCS 500-647826/4<br>03/20/2022 at 16:01 | GRO Conc. = 0.339 mg/l<br>((19349379-495016.43)/55585.941)/1000 ug/mg = 0.339 mg/l     |
|                                                               | Recalculate one %R                             | L2 Pg. 49, Lab ID: LCS 500-647826/4<br>03/20/2022 at 16:01   | GRO %R = 84%<br>(0.339 mg/l/0.403 mg/l)*100 = 84%                                      |
| LCSD                                                          | Check result                                   | NA                                                           |                                                                                        |
|                                                               | Recalculate one %R                             | NA                                                           |                                                                                        |
|                                                               | Recalculate one RPD value between LCS and LCSD | NA                                                           | 5146345.025                                                                            |
| Internal Standards                                            | Recalculate one %R                             | NA                                                           |                                                                                        |
|                                                               | Recalculate one delta RT                       | NA                                                           |                                                                                        |
| Sample Result for EOS-SW06-031722                             | Check result                                   | L4 Pg. 1523,<br>03/18/2022 23:36                             | DRO Conc. = 0.16 mg/l<br>((415030400-347436320)/4279389.2)*(2.5 ml/252 ml) = 0.16 mg/l |
| MDL for _____                                                 | Check result                                   | NA - MDLs no change for aqueous undiluted samples            |                                                                                        |
| RL for _____                                                  | Check result                                   | NA - RLs no change for aqueous undiluted samples             |                                                                                        |
| Convert $\mu\text{g}/\text{m}^3$ to ppbV (air only) for _____ | Check result                                   | NA                                                           |                                                                                        |

Formulas:

\*  $\text{Conc. (mg/kg)} = \{(\text{Raw Conc. in ug/L}) \times (\text{Vol. in L}) \times \text{DF}\} / \{(\text{Sample mass in kg}) \times (\text{fractional solids}) \times (1000)\}$

\*\*  $\text{Serial dilution conc. (ug/L)} = (\text{Raw Conc. in ug/L}) \times (\text{DF, typically 5})$

\*\*\*  $\%R = [(\text{Measured Value}) / (\text{True Value})] \times 100$

\*\*\*\*  $\%R = \{(\text{Spike sample result}) - (\text{Sample result})\} / (\text{Spike added}) \times 100$

$\text{RPD} = [(A-B) / \{(A + B)/2\}] \times 100$

$\text{Percent difference} = [(\text{Original Result} - \text{Diluted Result}) / \text{Original Result}] \times 100$

**Report No: J213894-1**

GRO by 8015C - Initial Calibration

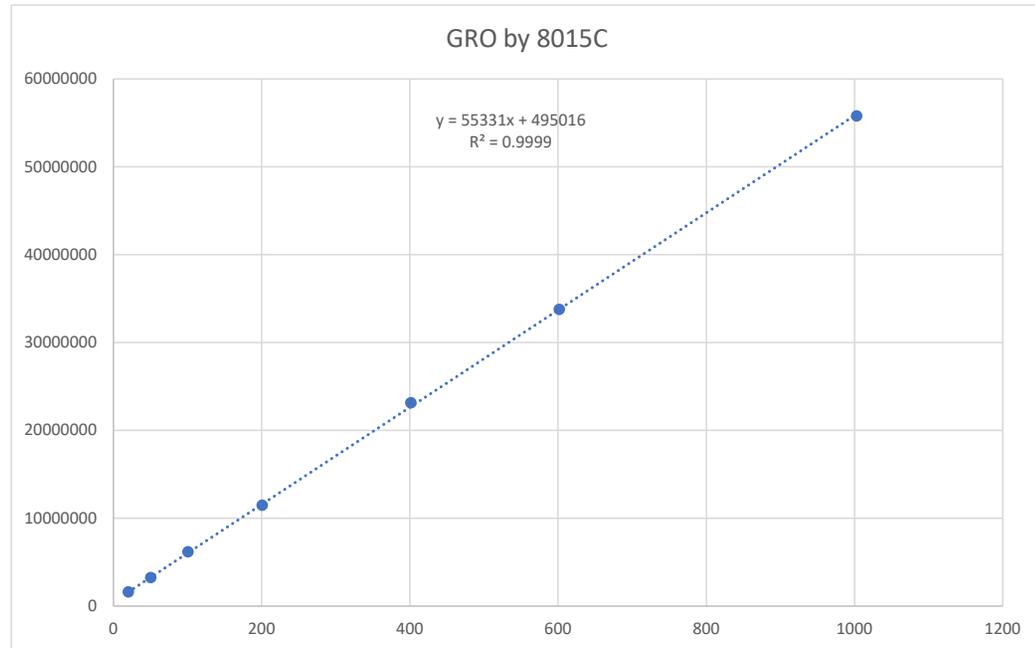
4/10/2021

**Inst. INST13-14**

**Linear Calibration Recalculation**

Page(s): 1398-1451

| C(ug/L) | Resp.    | Resp. Ratio<br>(Resp <sub>x</sub> /C <sub>x</sub> ) |
|---------|----------|-----------------------------------------------------|
| 20.052  | 1611906  | 80386.29563                                         |
| 50.13   | 3244891  | 64729.52324                                         |
| 100.26  | 6178962  | 61629.38360                                         |
| 200.52  | 11499488 | 57348.33433                                         |
| 401.04  | 23149413 | 57723.45153                                         |
| 601.56  | 33783070 | 56159.10300                                         |
| 1002.6  | 55788408 | 55643.73429                                         |



Slope 55331.0000  
 intercept 495016.4300  
 R 0.99995  
 R-squared 0.99990

ICV Recalculation Pg. 1451

GRO Resp.      Slope      Intercept      Amount ug/l  
 20672016      55331.0000      495016.43      363.0

$(20672016 - 495016.43) / 55585.941$

\*(X) = target analyte

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                                                                |                                                                                                                                                                                                               |                                            |
|-------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505                                               | <b>TO/TOLIN No.</b>                                                                                                                                                                                           | 68HE0519F0071/0001DC102                    |
| <b>Document Tracking No.</b>              | 1154d                                                                          | <b>Technical Reviewer (signature and date)</b>                                                                                                                                                                | <i>Harry N. Ellis III</i><br>20 April 2022 |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/18/2022                                                   | <b>Laboratory</b>                                                                                                                                                                                             | Eurofins Test America – Chicago, IL        |
| <b>Laboratory Report No.</b>              | 500-214002-1                                                                   | <b>Analyses</b><br>Volatile organic compounds by SW-846 method 8260B, semi volatile organic compounds by SW-846 method 8270D, and gasoline range, diesel range, and oil range organics by SW-846 method 8015C |                                            |
| <b>Samples and Matrix</b>                 | Seven surface water samples (including one field duplicate) and one trip blank |                                                                                                                                                                                                               |                                            |
| <b>Collection Date(s)</b>                 | March 19, 2022                                                                 |                                                                                                                                                                                                               |                                            |
| <b>Field Duplicate Pairs</b>              | EOS-SW06-031922 and EOS-SW06-031922-D                                          |                                                                                                                                                                                                               |                                            |
| <b>Field QC Blanks</b>                    | EOS-TB06-031922                                                                |                                                                                                                                                                                                               |                                            |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No rejection of data was required for this data package. The results may be used as qualified based on the findings of this report.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Instrument Performance Checks:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Initial Calibration:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The percent relative standard deviation (%RSD) for 2,2'-oxybis[1-chloropropane] and N-nitrosodi-n-propylamine were above acceptable limits in the initial calibration. There were no detections for these analytes in the project samples. Therefore, no qualifications were necessary. |

**Continuing Calibration:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The continuing calibration verification (CCV) percent difference (%D) for atrazine was outside of acceptable limits. The amount of atrazine found in the CCV was greater than the amount spiked. However, there were no detections for atrazine in the project samples. Therefore, no qualifications were necessary. |

**Calibration Verification:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Method blanks:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                   |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | Acetone was detected in the method blank at a concentration of 0.00275 milligrams per liter (mg/L). Therefore, the positive acetone results above the method detection limit (MDL) and below the reporting limit (RL) in all samples were qualified as not-detected (flagged U), and the result was raised to the value of the RL. |

**Field blanks:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Interference Check Samples (ICS) (ICP metals only):**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Surrogates and labeled compounds:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The percent recoveries (%Rs) for VOC surrogate compounds 1,2-dichloroethane-d4 and dibromofluoromethane were above acceptable limits in EOS-SW03-031922, EOS-SW05-031922, EOS-SW06-031922, EOS-SW08-031922, and EOS-TB06-031922. The recoveries were biased high due to low internal standard (IS) responses. Qualifications were not necessary as the associated positive results in these samples were also qualified due to low IS recoveries. See the Internal Standard section of this report for these qualifications. |

**MS/MSDs:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Post digestion spikes:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Serial dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Laboratory duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Field duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**LCSs/LCSDs:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | <p>The average percent recovery (%R) in the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) pair was above acceptable limits for atrazine and 4-chlorophenyl phenyl ether. However, there were no positive results for these analytes in the associated samples. As a result, no qualifications were necessary.</p> <p>The LCSD %Rs for 2-chlorophenol and dibenzofuran were above acceptable limits. However, the average %R of the LCS/LCSD pair was within acceptable limits for these analytes. As a result, no qualifications were necessary.</p> |

**Sample dilutions:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Re-extraction and reanalysis:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Second column confirmation (GC and HPLC analyses only):**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Internal Standards:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N               | The internal standard (IS) response for fluorobenzene was below acceptable limits in EOS-SW03-031922, EOS-SW05-031922, EOS-SW06-031922, EOS-SW08-031922, and EOS-TB06-031922. A low IS response will infer a positive bias when analytes are quantitated using that IS. Therefore, the positive result for trichloroethene in EOS-SW03-031922 was qualified as estimated, potentially biased high (flagged J+). The acetone results in these samples were previously qualified as not detected (flagged U) due to method blank contamination and further qualification was not necessary. |

**Target analyte identification:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |

**Analyte quantitation and MDLs/RLs:**

| Within Criteria | Exceedance/Notes                                                                                                                                                                   |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y               | Concentrations between the MDL and RL were qualified as estimated (flagged J) by the laboratory. Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |

**Other [specify]:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| NA              |                  |



## DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL | RL      | Units       | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|-----|---------|-------------|------------|----------|
| EOS-SW03-031922 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        |     | 0.1     | 0.4 mg/L    | 0.40       | U        |
| EOS-SW03-031922 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        |     | 0.01    | 0.02 mg/L   | 0.020      | U        |
| EOS-SW03-031922 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        |     | 0.4     | 0.79 mg/L   | 0.79       | U        |
| EOS-SW03-031922 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U *3     |     | 0.00038 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        |     | 0.0004  | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U *3     |     | 0.00046 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        |     | 0.00035 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U *3     |     | 0.00041 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U *3     |     | 0.00039 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        |     | 0.00034 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        |     | 0.002   | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW03-031922 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        |     | 0.00039 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        |     | 0.00033 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U *3     |     | 0.00039 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U *3     |     | 0.00043 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        |     | 0.0004  | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        |     | 0.00036 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | 2-Hexanone                            | 0.0016     | U        |     | 0.0016  | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW03-031922 | 8260B  | Acetone                               | 0.007      | J *3 B   |     | 0.0017  | 0.01 mg/L   | 0.010      | U        |
| EOS-SW03-031922 | 8260B  | Benzene                               | 0.00015    | U *3     |     | 0.00015 | 0.0005 mg/L | 0.00050    | U        |
| EOS-SW03-031922 | 8260B  | Bromodichloromethane                  | 0.00037    | U *3     |     | 0.00037 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Bromoform                             | 0.00048    | U        |     | 0.00048 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Bromomethane                          | 0.0008     | U *3     |     | 0.0008  | 0.003 mg/L  | 0.0030     | U        |
| EOS-SW03-031922 | 8260B  | Carbon disulfide                      | 0.00045    | U *3     |     | 0.00045 | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW03-031922 | 8260B  | Carbon tetrachloride                  | 0.00038    | U *3     |     | 0.00038 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Chlorobenzene                         | 0.00039    | U        |     | 0.00039 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Chloroethane                          | 0.00051    | U *3     |     | 0.00051 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Chloroform                            | 0.00037    | U *3     |     | 0.00037 | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW03-031922 | 8260B  | Chloromethane                         | 0.00032    | U *3     |     | 0.00032 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U *3     |     | 0.00041 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        |     | 0.00042 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Cyclohexane                           | 0.00049    | U *3     |     | 0.00049 | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Dibromochloromethane                  | 0.00049    | U        |     | 0.00049 | 0.001 mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031922 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U *3     | 0.00067  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW03-031922 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW03-031922 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Methyl acetate               | 0.002      | U *3     | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031922 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U *3     | 0.0021   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031922 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031922 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U *3     | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Methylcyclohexane            | 0.00032    | U *3     | 0.00032  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Methylene Chloride           | 0.0016     | U *3     | 0.0016   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW03-031922 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW03-031922 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U *3     | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Trichloroethene              | 0.00038    | J *3     | 0.00016  | 0.0005  | mg/L  | 0.00038    | J+       |
| EOS-SW03-031922 | 8260B  | Trichlorofluoromethane       | 0.00043    | U *3     | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Vinyl chloride               | 0.0002     | U *3     | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW03-031922 | 8270D  | 1,1'-Biphenyl                | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | 2,4,6-Trichlorophenol        | 0.00056    | U        | 0.00056  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | 2,4-Dichlorophenol           | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | 2,4-Dinitrophenol            | 0.0067     | U        | 0.0067   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031922 | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | 2,6-Dinitrotoluene           | 0.000057   | U        | 0.000057 | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | 2-Chloronaphthalene          | 0.00018    | U        | 0.00018  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | 2-Chlorophenol               | 0.00043    | U *+     | 0.00043  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | 2-Methylnaphthalene          | 0.000051   | U        | 0.000051 | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | 2-Nitrophenol                | 0.0019     | U        | 0.0019   | 0.0078  | mg/L  | 0.0078     | U        |

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| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031922 | 8270D  | 3 & 4 Methylphenol          | 0.00035    | U        | 0.00035  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0013     | U        | 0.0013   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | 3-Nitroaniline              | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0046     | U        | 0.0046   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031922 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00042    | U        | 0.00042  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00049    | U *+     | 0.00049  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | 4-Nitrophenol               | 0.0058     | U        | 0.0058   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031922 | 8270D  | Acenaphthene                | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Acenaphthylene              | 0.00021    | U        | 0.00021  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Acetophenone                | 0.00052    | U        | 0.00052  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Anthracene                  | 0.00026    | U        | 0.00026  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Atrazine                    | 0.00049    | U *+     | 0.00049  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.031   | mg/L  | 0.031      | U        |
| EOS-SW03-031922 | 8270D  | Benzo[a]anthracene          | 0.000045   | J        | 0.000044 | 0.00016 | mg/L  | 0.000045   | J        |
| EOS-SW03-031922 | 8270D  | Benzo[a]pyrene              | 0.000077   | U        | 0.000077 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031922 | 8270D  | Benzo[b]fluoranthene        | 0.000063   | U        | 0.000063 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031922 | 8270D  | Benzo[g,h,i]perylene        | 0.00029    | U        | 0.00029  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Benzo[k]fluoranthene        | 0.00005    | U        | 0.00005  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031922 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00022    | U        | 0.00022  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | Butyl benzyl phthalate      | 0.00037    | U        | 0.00037  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Chrysene                    | 0.000053   | U        | 0.000053 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031922 | 8270D  | Dibenz(a,h)anthracene       | 0.00004    | U        | 0.00004  | 0.00023 | mg/L  | 0.00023    | U        |
| EOS-SW03-031922 | 8270D  | Dibenzofuran                | 0.0002     | U *+     | 0.0002   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | Diethyl phthalate           | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Dimethyl phthalate          | 0.00024    | U        | 0.00024  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Di-n-butyl phthalate        | 0.00057    | U        | 0.00057  | 0.0039  | mg/L  | 0.0039     | U        |

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|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW03-031922 | 8270D  | Di-n-octyl phthalate                  | 0.00082    | U        | 0.00082  | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW03-031922 | 8270D  | Fluoranthene                          | 0.00035    | U        | 0.00035  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Fluorene                              | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Hexachlorobenzene                     | 0.000062   | U        | 0.000062 | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW03-031922 | 8270D  | Hexachlorobutadiene                   | 0.0004     | U        | 0.0004   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Hexachlorocyclopentadiene             | 0.005      | U        | 0.005    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW03-031922 | 8270D  | Hexachloroethane                      | 0.00047    | U        | 0.00047  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.000058   | U        | 0.000058 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW03-031922 | 8270D  | Isophorone                            | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | Naphthalene                           | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Nitrobenzene                          | 0.00035    | U        | 0.00035  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW03-031922 | 8270D  | N-Nitrosodiphenylamine                | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW03-031922 | 8270D  | Pentachlorophenol                     | 0.0051     | J        | 0.0031   | 0.016   | mg/L  | 0.0051     | J        |
| EOS-SW03-031922 | 8270D  | Phenanthrene                          | 0.00023    | U        | 0.00023  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW03-031922 | 8270D  | Phenol                                | 0.00052    | U        | 0.00052  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW03-031922 | 8270D  | Pyrene                                | 0.00033    | U        | 0.00033  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW04-031922 | 8015C  | Diesel Range Organics [C10-C28]       | 0.11       | J        | 0.1      | 0.4     | mg/L  | 0.11       | J        |
| EOS-SW04-031922 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW04-031922 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.8     | mg/L  | 0.80       | U        |
| EOS-SW04-031922 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW04-031922 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW04-031922 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031922 | 8260B  | Acetone                   | 0.0054     | J B      | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW04-031922 | 8260B  | Benzene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031922 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031922 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031922 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW04-031922 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW04-031922 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031922 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031922 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031922 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031922 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW04-031922 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Toluene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031922 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Trichloroethene           | 0.00016    | U        | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW04-031922 | 8260B  | Trichlorofluoromethane    | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW04-031922 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW04-031922 | 8270D  | 1,1'-Biphenyl                | 0.0003     | U        | 0.0003   | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.00031    | U        | 0.00031  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 2,4,6-Trichlorophenol        | 0.00058    | U        | 0.00058  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 2,4-Dimethylphenol           | 0.0015     | U        | 0.0015   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 2,4-Dinitrophenol            | 0.007      | U        | 0.007    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031922 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | 2,6-Dinitrotoluene           | 0.00006    | U        | 0.00006  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | 2-Chlorophenol               | 0.00046    | U **+    | 0.00046  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | 2-Methylnaphthalene          | 0.000053   | U        | 0.000053 | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | 2-Methylphenol               | 0.00025    | U        | 0.00025  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | 2-Nitroaniline               | 0.0011     | U        | 0.0011   | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | 2-Nitrophenol                | 0.002      | U        | 0.002    | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 3 & 4 Methylphenol           | 0.00037    | U        | 0.00037  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0014     | U        | 0.0014   | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | 3-Nitroaniline               | 0.0015     | U        | 0.0015   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0048     | U        | 0.0048   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031922 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00044    | U        | 0.00044  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | 4-Chloro-3-methylphenol      | 0.0019     | U        | 0.0019   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00052    | U **+    | 0.00052  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | 4-Nitroaniline               | 0.0014     | U        | 0.0014   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | 4-Nitrophenol                | 0.0061     | U        | 0.0061   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031922 | 8270D  | Acenaphthene                 | 0.00025    | U        | 0.00025  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Acenaphthylene               | 0.00022    | U        | 0.00022  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Acetophenone                 | 0.00054    | U        | 0.00054  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | Anthracene                   | 0.00027    | U        | 0.00027  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Atrazine                     | 0.00051    | U **+    | 0.00051  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | Benzaldehyde                 | 0.012      | U        | 0.012    | 0.033   | mg/L  | 0.033      | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW04-031922 | 8270D  | Benzo[a]anthracene          | 0.000046   | U        | 0.000046 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031922 | 8270D  | Benzo[a]pyrene              | 0.000081   | U        | 0.000081 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031922 | 8270D  | Benzo[b]fluoranthene        | 0.000066   | U        | 0.000066 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031922 | 8270D  | Benzo[g,h,i]perylene        | 0.00031    | U        | 0.00031  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Benzo[k]fluoranthene        | 0.000052   | U        | 0.000052 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031922 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | Bis(2-chloroethyl)ether     | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | Butyl benzyl phthalate      | 0.00039    | U        | 0.00039  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | Caprolactam                 | 0.0012     | J        | 0.0012   | 0.0082  | mg/L  | 0.0012     | J        |
| EOS-SW04-031922 | 8270D  | Carbazole                   | 0.00029    | U        | 0.00029  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | Chrysene                    | 0.000056   | U        | 0.000056 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031922 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW04-031922 | 8270D  | Dibenzofuran                | 0.00021    | U *+     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | Diethyl phthalate           | 0.00064    | J        | 0.00029  | 0.0041  | mg/L  | 0.00064    | J        |
| EOS-SW04-031922 | 8270D  | Dimethyl phthalate          | 0.00026    | U        | 0.00026  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | Di-n-butyl phthalate        | 0.0006     | U        | 0.0006   | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | Di-n-octyl phthalate        | 0.00086    | U        | 0.00086  | 0.0082  | mg/L  | 0.0082     | U        |
| EOS-SW04-031922 | 8270D  | Fluoranthene                | 0.00037    | U        | 0.00037  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Fluorene                    | 0.0002     | U        | 0.0002   | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Hexachlorobenzene           | 0.000065   | U        | 0.000065 | 0.00041 | mg/L  | 0.00041    | U        |
| EOS-SW04-031922 | 8270D  | Hexachlorobutadiene         | 0.00042    | U        | 0.00042  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | Hexachlorocyclopentadiene   | 0.0052     | U        | 0.0052   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031922 | 8270D  | Hexachloroethane            | 0.00049    | U        | 0.00049  | 0.0041  | mg/L  | 0.0041     | U        |
| EOS-SW04-031922 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.000061   | U        | 0.000061 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW04-031922 | 8270D  | Isophorone                  | 0.00031    | U        | 0.00031  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | Naphthalene                 | 0.00025    | U        | 0.00025  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Nitrobenzene                | 0.00037    | U        | 0.00037  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00013    | U        | 0.00013  | 0.00041 | mg/L  | 0.00041    | U        |
| EOS-SW04-031922 | 8270D  | N-Nitrosodiphenylamine      | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW04-031922 | 8270D  | Pentachlorophenol           | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW04-031922 | 8270D  | Phenanthrene                | 0.00025    | U        | 0.00025  | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW04-031922 | 8270D  | Phenol                      | 0.00055    | U        | 0.00055  | 0.0041  | mg/L  | 0.0041     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|---------|-------|------------|----------|
| EOS-SW04-031922 | 8270D  | Pyrene                                | 0.00035    | U        | 0.00035 | 0.00082 | mg/L  | 0.00082    | U        |
| EOS-SW05-031922 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        | 0.1     | 0.41    | mg/L  | 0.41       | U        |
| EOS-SW05-031922 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01    | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW05-031922 | 8015C  | Oil Range Organics (C20-C34)          | 0.41       | U        | 0.41    | 0.81    | mg/L  | 0.81       | U        |
| EOS-SW05-031922 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U *3     | 0.00038 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U *3     | 0.00046 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U *3     | 0.00041 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U *3     | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031922 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U *3     | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U *3     | 0.00043 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031922 | 8260B  | Acetone                               | 0.0054     | J *3 B   | 0.0017  | 0.01    | mg/L  | 0.010      | U        |
| EOS-SW05-031922 | 8260B  | Benzene                               | 0.00015    | U *3     | 0.00015 | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW05-031922 | 8260B  | Bromodichloromethane                  | 0.00037    | U *3     | 0.00037 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Bromomethane                          | 0.0008     | U *3     | 0.0008  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW05-031922 | 8260B  | Carbon disulfide                      | 0.00045    | U *3     | 0.00045 | 0.002   | mg/L  | 0.0020     | U        |
| EOS-SW05-031922 | 8260B  | Carbon tetrachloride                  | 0.00038    | U *3     | 0.00038 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Chloroethane                          | 0.00051    | U *3     | 0.00051 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Chloroform                            | 0.00037    | U *3     | 0.00037 | 0.002   | mg/L  | 0.0020     | U        |
| EOS-SW05-031922 | 8260B  | Chloromethane                         | 0.00032    | U *3     | 0.00032 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U *3     | 0.00041 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Cyclohexane                           | 0.00049    | U *3     | 0.00049 | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031922 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U *3     | 0.00067  | 0.003   | mg/L  | 0.0030     | U        |
| EOS-SW05-031922 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW05-031922 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Methyl acetate               | 0.002      | U *3     | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031922 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U *3     | 0.0021   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031922 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031922 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U *3     | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Methylcyclohexane            | 0.00032    | U *3     | 0.00032  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Methylene Chloride           | 0.0016     | U *3     | 0.0016   | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW05-031922 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW05-031922 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U *3     | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Trichloroethene              | 0.00016    | U *3     | 0.00016  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW05-031922 | 8260B  | Trichlorofluoromethane       | 0.00043    | U *3     | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Vinyl chloride               | 0.0002     | U *3     | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW05-031922 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.00031    | U        | 0.00031  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 2,4,6-Trichlorophenol        | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 2,4-Dimethylphenol           | 0.0015     | U        | 0.0015   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031922 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | 2,6-Dinitrotoluene           | 0.00006    | U        | 0.00006  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | 2-Chlorophenol               | 0.00045    | U *+     | 0.00045  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | 2-Methylnaphthalene          | 0.000053   | U        | 0.000053 | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | 2-Methylphenol               | 0.00025    | U        | 0.00025  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.004   | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031922 | 8270D  | 2-Nitrophenol               | 0.002      | U        | 0.002    | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | 3-Nitroaniline              | 0.0014     | U        | 0.0014   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0048     | U        | 0.0048   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031922 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00044    | U        | 0.00044  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | 4-Chloro-3-methylphenol     | 0.0019     | U        | 0.0019   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U *+     | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | 4-Nitrophenol               | 0.006      | U        | 0.006    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031922 | 8270D  | Acenaphthene                | 0.00025    | U        | 0.00025  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Acenaphthylene              | 0.00022    | U        | 0.00022  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Acetophenone                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Atrazine                    | 0.0005     | U *+     | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW05-031922 | 8270D  | Benzo[a]anthracene          | 0.000046   | U        | 0.000046 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031922 | 8270D  | Benzo[a]pyrene              | 0.00008    | U        | 0.00008  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031922 | 8270D  | Benzo[b]fluoranthene        | 0.000065   | U        | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031922 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Benzo[k]fluoranthene        | 0.000052   | U        | 0.000052 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031922 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | Bis(2-chloroethyl)ether     | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | Butyl benzyl phthalate      | 0.00039    | U        | 0.00039  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | Carbazole                   | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Chrysene                    | 0.000055   | U        | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031922 | 8270D  | Dibenz(a,h)anthracene       | 0.000041   | U        | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW05-031922 | 8270D  | Dibenzofuran                | 0.00021    | U *+     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | Diethyl phthalate           | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW05-031922 | 8270D  | Di-n-butyl phthalate                  | 0.00059    | U        | 0.00059  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Di-n-octyl phthalate                  | 0.00085    | U        | 0.00085  | 0.0081  | mg/L  | 0.0081     | U        |
| EOS-SW05-031922 | 8270D  | Fluoranthene                          | 0.00037    | U        | 0.00037  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Fluorene                              | 0.0002     | U        | 0.0002   | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW05-031922 | 8270D  | Hexachlorobutadiene                   | 0.00042    | U        | 0.00042  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U        | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031922 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW05-031922 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | Naphthalene                           | 0.00025    | U        | 0.00025  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Nitrobenzene                          | 0.00036    | U        | 0.00036  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW05-031922 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW05-031922 | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW05-031922 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW05-031922 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW05-031922 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.00081 | mg/L  | 0.00081    | U        |
| EOS-SW06-031922 | 8015C  | Diesel Range Organics [C10-C28]       | 0.1        | U        | 0.1      | 0.41    | mg/L  | 0.41       | U        |
| EOS-SW06-031922 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW06-031922 | 8015C  | Oil Range Organics (C20-C34)          | 0.41       | U        | 0.41     | 0.82    | mg/L  | 0.82       | U        |
| EOS-SW06-031922 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U *3     | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U *3     | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U *3     | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U *3     | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW06-031922 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U *3     | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U *3     | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW06-031922 | 8260B  | 1,3-Dichlorobenzene       | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922 | 8260B  | Acetone                   | 0.0041     | J *3 B   | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW06-031922 | 8260B  | Benzene                   | 0.00015    | U *3     | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031922 | 8260B  | Bromodichloromethane      | 0.00037    | U *3     | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Bromomethane              | 0.0008     | U *3     | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031922 | 8260B  | Carbon disulfide          | 0.00045    | U *3     | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031922 | 8260B  | Carbon tetrachloride      | 0.00038    | U *3     | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Chloroethane              | 0.00051    | U *3     | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Chloroform                | 0.00037    | U *3     | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW06-031922 | 8260B  | Chloromethane             | 0.00032    | U *3     | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U *3     | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Cyclohexane               | 0.00049    | U *3     | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U *3     | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031922 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031922 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Methyl acetate            | 0.002      | U *3     | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U *3     | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U *3     | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Methylcyclohexane         | 0.00032    | U *3     | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Methylene Chloride        | 0.0016     | U *3     | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Toluene                   | 0.00016    | J        | 0.00015 | 0.0005 | mg/L  | 0.00016    | J        |
| EOS-SW06-031922 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U *3     | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Trichloroethene           | 0.00016    | U *3     | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031922 | 8260B  | Trichlorofluoromethane       | 0.00043    | U *3     | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Vinyl chloride               | 0.0002     | U *3     | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW06-031922 | 8270D  | 1,1'-Biphenyl                | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 2,4,6-Trichlorophenol        | 0.00056    | U        | 0.00056  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | 2,4-Dichlorophenol           | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 2,4-Dinitrophenol            | 0.0067     | U        | 0.0067   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922 | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | 2,6-Dinitrotoluene           | 0.000057   | U        | 0.000057 | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | 2-Chloronaphthalene          | 0.00018    | U        | 0.00018  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | 2-Chlorophenol               | 0.00043    | U *+     | 0.00043  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | 2-Methylnaphthalene          | 0.000051   | U        | 0.000051 | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | 2-Nitrophenol                | 0.0019     | U        | 0.0019   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 3 & 4 Methylphenol           | 0.00035    | U        | 0.00035  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0013     | U        | 0.0013   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | 3-Nitroaniline               | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0046     | U        | 0.0046   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00042    | U        | 0.00042  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.00049    | U *+     | 0.00049  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | 4-Nitrophenol                | 0.0058     | U        | 0.0058   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922 | 8270D  | Acenaphthene                 | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | Acenaphthylene               | 0.00021    | U        | 0.00021  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | Acetophenone                 | 0.00052    | U        | 0.00052  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | Anthracene                   | 0.00026    | U        | 0.00026  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | Atrazine                     | 0.00049    | U *+     | 0.00049  | 0.0039  | mg/L  | 0.0039     | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031922 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.031   | mg/L  | 0.031      | U        |
| EOS-SW06-031922 | 8270D  | Benzo[a]anthracene          | 0.000044   | U        | 0.000044 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922 | 8270D  | Benzo[a]pyrene              | 0.000077   | U        | 0.000077 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922 | 8270D  | Benzo[b]fluoranthene        | 0.000063   | U        | 0.000063 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922 | 8270D  | Benzo[g,h,i]perylene        | 0.00029    | U        | 0.00029  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | Benzo[k]fluoranthene        | 0.00005    | U        | 0.00005  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00022    | U        | 0.00022  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | Butyl benzyl phthalate      | 0.00037    | U        | 0.00037  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | Carbazole                   | 0.00027    | U        | 0.00027  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | Chrysene                    | 0.000053   | U        | 0.000053 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922 | 8270D  | Dibenz(a,h)anthracene       | 0.000039   | U        | 0.000039 | 0.00023 | mg/L  | 0.00023    | U        |
| EOS-SW06-031922 | 8270D  | Dibenzofuran                | 0.0002     | U *+     | 0.0002   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | Diethyl phthalate           | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | Dimethyl phthalate          | 0.00024    | U        | 0.00024  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | Di-n-butyl phthalate        | 0.00057    | U        | 0.00057  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | Di-n-octyl phthalate        | 0.00082    | U        | 0.00082  | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW06-031922 | 8270D  | Fluoranthene                | 0.00035    | U        | 0.00035  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | Fluorene                    | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | Hexachlorobenzene           | 0.000062   | U        | 0.000062 | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW06-031922 | 8270D  | Hexachlorobutadiene         | 0.0004     | U        | 0.0004   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | Hexachlorocyclopentadiene   | 0.005      | U        | 0.005    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922 | 8270D  | Hexachloroethane            | 0.00047    | U        | 0.00047  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW06-031922 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.000058   | U        | 0.000058 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922 | 8270D  | Isophorone                  | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | Naphthalene                 | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | Nitrobenzene                | 0.00035    | U        | 0.00035  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW06-031922 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW06-031922 | 8270D  | N-Nitrosodiphenylamine      | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922 | 8270D  | Pentachlorophenol           | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922 | 8270D  | Phenanthrene                | 0.00023    | U        | 0.00023  | 0.00078 | mg/L  | 0.00078    | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

## EUROFINS REPORT NO. J214002-1

| Sample ID         | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL      | Units     | Val Result | Val Qual |
|-------------------|--------|---------------------------------------|------------|----------|---------|---------|-----------|------------|----------|
| EOS-SW06-031922   | 8270D  | Phenol                                | 0.00052    | U        | 0.00052 | 0.0039  | mg/L      | 0.0039     | U        |
| EOS-SW06-031922   | 8270D  | Pyrene                                | 0.00033    | U        | 0.00033 | 0.00078 | mg/L      | 0.00078    | U        |
| EOS-SW06-031922-D | 8015C  | Diesel Range Organics [C10-C28]       | 0.12       | J        |         | 0.1     | 0.4 mg/L  | 0.12       | J        |
| EOS-SW06-031922-D | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        |         | 0.01    | 0.02 mg/L | 0.020      | U        |
| EOS-SW06-031922-D | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        |         | 0.4     | 0.79 mg/L | 0.79       | U        |
| EOS-SW06-031922-D | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   | 0.005   | mg/L      | 0.0050     | U        |
| EOS-SW06-031922-D | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U        | 0.00043 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  | 0.005   | mg/L      | 0.0050     | U        |
| EOS-SW06-031922-D | 8260B  | Acetone                               | 0.0047     | J B      | 0.0017  | 0.01    | mg/L      | 0.010      | U        |
| EOS-SW06-031922-D | 8260B  | Benzene                               | 0.00015    | U        | 0.00015 | 0.0005  | mg/L      | 0.00050    | U        |
| EOS-SW06-031922-D | 8260B  | Bromodichloromethane                  | 0.00037    | U        | 0.00037 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Bromomethane                          | 0.0008     | U        | 0.0008  | 0.003   | mg/L      | 0.0030     | U        |
| EOS-SW06-031922-D | 8260B  | Carbon disulfide                      | 0.00045    | U        | 0.00045 | 0.002   | mg/L      | 0.0020     | U        |
| EOS-SW06-031922-D | 8260B  | Carbon tetrachloride                  | 0.00038    | U        | 0.00038 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Chloroethane                          | 0.00051    | U        | 0.00051 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Chloroform                            | 0.00037    | U        | 0.00037 | 0.002   | mg/L      | 0.0020     | U        |
| EOS-SW06-031922-D | 8260B  | Chloromethane                         | 0.00032    | U        | 0.00032 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U        | 0.00041 | 0.001   | mg/L      | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | cis-1,3-Dichloropropene               | 0.00042    | U        | 0.00042 | 0.001   | mg/L      | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID         | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-------------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW06-031922-D | 8260B  | Cyclohexane                  | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Dichlorodifluoromethane      | 0.00067    | U        | 0.00067  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW06-031922-D | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031922-D | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Methyl acetate               | 0.002      | U        | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922-D | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U        | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922-D | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922-D | 8260B  | Methyl tert-butyl ether      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Methylcyclohexane            | 0.00032    | U        | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Methylene Chloride           | 0.0016     | U        | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW06-031922-D | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031922-D | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U        | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW06-031922-D | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW06-031922-D | 8270D  | 1,1'-Biphenyl                | 0.00029    | U        | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | 2,4,5-Trichlorophenol        | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U        | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 2,4-Dinitrophenol            | 0.0069     | U        | 0.0069   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW06-031922-D | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | 2-Chlorophenol               | 0.00045    | U *+     | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | 2-Methylnaphthalene          | 0.000052   | U        | 0.000052 | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016 | mg/L  | 0.0016     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID         | Method | Analyte                     | Lab Result   | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-------------------|--------|-----------------------------|--------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031922-D | 8270D  | 2-Nitroaniline              | 0.001 U      |          | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | 2-Nitrophenol               | 0.002 U      |          | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 3 & 4 Methylphenol          | 0.00036 U    |          | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014 U     |          | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | 3-Nitroaniline              | 0.0014 U     |          | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047 U     |          | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922-D | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043 U    |          | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | 4-Chloro-3-methylphenol     | 0.0018 U     |          | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 4-Chloroaniline             | 0.0016 U     |          | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051 U *+ |          | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | 4-Nitroaniline              | 0.0013 U     |          | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | 4-Nitrophenol               | 0.0059 U     |          | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922-D | 8270D  | Acenaphthene                | 0.00025 U    |          | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Acenaphthylene              | 0.00021 U    |          | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Acetophenone                | 0.00053 U    |          | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Anthracene                  | 0.00027 U    |          | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Atrazine                    | 0.0005 U *+  |          | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Benzaldehyde                | 0.012 U      |          | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW06-031922-D | 8270D  | Benzo[a]anthracene          | 0.000045 U   |          | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922-D | 8270D  | Benzo[a]pyrene              | 0.000079 U   |          | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922-D | 8270D  | Benzo[b]fluoranthene        | 0.000065 U   |          | 0.000065 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922-D | 8270D  | Benzo[g,h,i]perylene        | 0.0003 U     |          | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Benzo[k]fluoranthene        | 0.000051 U   |          | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922-D | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023 U    |          | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | Bis(2-chloroethyl)ether     | 0.00023 U    |          | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014 U     |          | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | Butyl benzyl phthalate      | 0.00038 U    |          | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | Caprolactam                 | 0.0012 U     |          | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | Carbazole                   | 0.00028 U    |          | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Chrysene                    | 0.000055 U   |          | 0.000055 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922-D | 8270D  | Dibenz(a,h)anthracene       | 0.000041 U   |          | 0.000041 | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW06-031922-D | 8270D  | Dibenzofuran                | 0.00021 U *+ |          | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | Diethyl phthalate           | 0.00029 U    |          | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID         | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-------------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW06-031922-D | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Di-n-octyl phthalate                  | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW06-031922-D | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Fluorene                              | 0.0002     | U        | 0.0002   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Hexachlorobenzene                     | 0.000064   | U        | 0.000064 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW06-031922-D | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U        | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922-D | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW06-031922-D | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | Naphthalene                           | 0.00025    | U        | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Nitrobenzene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW06-031922-D | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW06-031922-D | 8270D  | Pentachlorophenol                     | 0.0032     | U        | 0.0032   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW06-031922-D | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW06-031922-D | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW06-031922-D | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW07-031922   | 8015C  | Diesel Range Organics [C10-C28]       | 0.11       | J        | 0.1      | 0.4     | mg/L  | 0.11       | J        |
| EOS-SW07-031922   | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-SW07-031922   | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        | 0.4      | 0.81    | mg/L  | 0.81       | U        |
| EOS-SW07-031922   | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U        | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U        | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U        | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-SW07-031922   | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922   | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-SW07-031922 | 8260B  | 1,2-Dichloropropane       | 0.00043    | U        | 0.00043 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | 1,3-Dichlorobenzene       | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031922 | 8260B  | Acetone                   | 0.0037     | J B      | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-SW07-031922 | 8260B  | Benzene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031922 | 8260B  | Bromodichloromethane      | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Bromomethane              | 0.0008     | U        | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031922 | 8260B  | Carbon disulfide          | 0.00045    | U        | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031922 | 8260B  | Carbon tetrachloride      | 0.00038    | U        | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Chloroethane              | 0.00051    | U        | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Chloroform                | 0.00037    | U        | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-SW07-031922 | 8260B  | Chloromethane             | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U        | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Cyclohexane               | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U        | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW07-031922 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031922 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Methyl acetate            | 0.002      | U        | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031922 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U        | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031922 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031922 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Methylcyclohexane         | 0.00032    | U        | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Methylene Chloride        | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW07-031922 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Toluene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW07-031922 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U        | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031922 | 8260B  | Trichloroethene              | 0.00016    | U        | 0.00016  | 0.0005  | mg/L  | 0.00050    | U        |
| EOS-SW07-031922 | 8260B  | Trichlorofluoromethane       | 0.00043    | U        | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Vinyl chloride               | 0.0002     | U        | 0.0002   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-SW07-031922 | 8270D  | 1,1'-Biphenyl                | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 2,4,6-Trichlorophenol        | 0.00056    | U        | 0.00056  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | 2,4-Dichlorophenol           | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 2,4-Dinitrophenol            | 0.0067     | U        | 0.0067   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031922 | 8270D  | 2,4-Dinitrotoluene           | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | 2,6-Dinitrotoluene           | 0.000058   | U        | 0.000058 | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | 2-Chloronaphthalene          | 0.00018    | U        | 0.00018  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | 2-Chlorophenol               | 0.00044    | U *+     | 0.00044  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | 2-Methylnaphthalene          | 0.000051   | U        | 0.000051 | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | 2-Methylphenol               | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | 2-Nitroaniline               | 0.001      | U        | 0.001    | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | 2-Nitrophenol                | 0.002      | U        | 0.002    | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 3 & 4 Methylphenol           | 0.00035    | U        | 0.00035  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | 3,3'-Dichlorobenzidine       | 0.0013     | U        | 0.0013   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | 3-Nitroaniline               | 0.0014     | U        | 0.0014   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 4,6-Dinitro-2-methylphenol   | 0.0046     | U        | 0.0046   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031922 | 8270D  | 4-Bromophenyl phenyl ether   | 0.00042    | U        | 0.00042  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | 4-Chloro-3-methylphenol      | 0.0018     | U        | 0.0018   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 4-Chloroaniline              | 0.0016     | U        | 0.0016   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 4-Chlorophenyl phenyl ether  | 0.0005     | U *+     | 0.0005   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | 4-Nitroaniline               | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | 4-Nitrophenol                | 0.0058     | U        | 0.0058   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031922 | 8270D  | Acenaphthene                 | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | Acenaphthylene               | 0.00021    | U        | 0.00021  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | Acetophenone                 | 0.00052    | U        | 0.00052  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Anthracene                   | 0.00026    | U        | 0.00026  | 0.00078 | mg/L  | 0.00078    | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW07-031922 | 8270D  | Atrazine                    | 0.00049    | U *+     | 0.00049  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.031   | mg/L  | 0.031      | U        |
| EOS-SW07-031922 | 8270D  | Benzo[a]anthracene          | 0.000044   | U        | 0.000044 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031922 | 8270D  | Benzo[a]pyrene              | 0.000077   | U        | 0.000077 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031922 | 8270D  | Benzo[b]fluoranthene        | 0.000063   | U        | 0.000063 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031922 | 8270D  | Benzo[g,h,i]perylene        | 0.00029    | U        | 0.00029  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | Benzo[k]fluoranthene        | 0.00005    | U        | 0.00005  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031922 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00022    | U        | 0.00022  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0013     | U        | 0.0013   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Chrysene                    | 0.000053   | U        | 0.000053 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031922 | 8270D  | Dibenz(a,h)anthracene       | 0.00004    | U        | 0.00004  | 0.00023 | mg/L  | 0.00023    | U        |
| EOS-SW07-031922 | 8270D  | Dibenzofuran                | 0.00021    | U *+     | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | Diethyl phthalate           | 0.00028    | U        | 0.00028  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Dimethyl phthalate          | 0.00025    | U        | 0.00025  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Di-n-butyl phthalate        | 0.00057    | U        | 0.00057  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Di-n-octyl phthalate        | 0.00082    | U        | 0.00082  | 0.0078  | mg/L  | 0.0078     | U        |
| EOS-SW07-031922 | 8270D  | Fluoranthene                | 0.00035    | U        | 0.00035  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | Fluorene                    | 0.00019    | U        | 0.00019  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | Hexachlorobenzene           | 0.000062   | U        | 0.000062 | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW07-031922 | 8270D  | Hexachlorobutadiene         | 0.0004     | U        | 0.0004   | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Hexachlorocyclopentadiene   | 0.005      | U        | 0.005    | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW07-031922 | 8270D  | Hexachloroethane            | 0.00047    | U        | 0.00047  | 0.0039  | mg/L  | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Indeno[1,2,3-cd]pyrene      | 0.000058   | U        | 0.000058 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW07-031922 | 8270D  | Isophorone                  | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | Naphthalene                 | 0.00024    | U        | 0.00024  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | Nitrobenzene                | 0.00035    | U        | 0.00035  | 0.00078 | mg/L  | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | N-Nitrosodi-n-propylamine   | 0.00012    | U        | 0.00012  | 0.00039 | mg/L  | 0.00039    | U        |
| EOS-SW07-031922 | 8270D  | N-Nitrosodiphenylamine      | 0.00029    | U        | 0.00029  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW07-031922 | 8270D  | Pentachlorophenol           | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL     | RL      | Units       | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|---------|---------|-------------|------------|----------|
| EOS-SW07-031922 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024 | 0.00078 | mg/L        | 0.00078    | U        |
| EOS-SW07-031922 | 8270D  | Phenol                                | 0.00052    | U        | 0.00052 | 0.0039  | mg/L        | 0.0039     | U        |
| EOS-SW07-031922 | 8270D  | Pyrene                                | 0.00033    | U        | 0.00033 | 0.00078 | mg/L        | 0.00078    | U        |
| EOS-SW08-031922 | 8015C  | Diesel Range Organics [C10-C28]       | 0.12       | J        |         | 0.1     | 0.4 mg/L    | 0.12       | J        |
| EOS-SW08-031922 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        |         | 0.01    | 0.02 mg/L   | 0.020      | U        |
| EOS-SW08-031922 | 8015C  | Oil Range Organics (C20-C34)          | 0.4        | U        |         | 0.4     | 0.81 mg/L   | 0.81       | U        |
| EOS-SW08-031922 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U *3     | 0.00038 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004  |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U *3     | 0.00046 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U *3     | 0.00041 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U *3     | 0.00039 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002   |         | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW08-031922 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U *3     | 0.00039 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U *3     | 0.00043 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,3-Dichlorobenzene                   | 0.0004     | U        | 0.0004  |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 1,4-Dichlorobenzene                   | 0.00036    | U        | 0.00036 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | 2-Hexanone                            | 0.0016     | U        | 0.0016  |         | 0.005 mg/L  | 0.0050     | U        |
| EOS-SW08-031922 | 8260B  | Acetone                               | 0.0041     | J *3 B   | 0.0017  |         | 0.01 mg/L   | 0.010      | U        |
| EOS-SW08-031922 | 8260B  | Benzene                               | 0.00015    | U *3     | 0.00015 |         | 0.0005 mg/L | 0.00050    | U        |
| EOS-SW08-031922 | 8260B  | Bromodichloromethane                  | 0.00037    | U *3     | 0.00037 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Bromoform                             | 0.00048    | U        | 0.00048 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Bromomethane                          | 0.0008     | U *3     | 0.0008  |         | 0.003 mg/L  | 0.0030     | U        |
| EOS-SW08-031922 | 8260B  | Carbon disulfide                      | 0.00045    | U *3     | 0.00045 |         | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW08-031922 | 8260B  | Carbon tetrachloride                  | 0.00038    | U *3     | 0.00038 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Chlorobenzene                         | 0.00039    | U        | 0.00039 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Chloroethane                          | 0.00051    | U *3     | 0.00051 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Chloroform                            | 0.00037    | U *3     | 0.00037 |         | 0.002 mg/L  | 0.0020     | U        |
| EOS-SW08-031922 | 8260B  | Chloromethane                         | 0.00032    | U *3     | 0.00032 |         | 0.001 mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | cis-1,2-Dichloroethene                | 0.00041    | U *3     | 0.00041 |         | 0.001 mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                      | Lab Result | Lab Qual | MDL      | RL     | Units | Val Result | Val Qual |
|-----------------|--------|------------------------------|------------|----------|----------|--------|-------|------------|----------|
| EOS-SW08-031922 | 8260B  | cis-1,3-Dichloropropene      | 0.00042    | U        | 0.00042  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Cyclohexane                  | 0.00049    | U *3     | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Dibromochloromethane         | 0.00049    | U        | 0.00049  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Dichlorodifluoromethane      | 0.00067    | U *3     | 0.00067  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-SW08-031922 | 8260B  | Ethylbenzene                 | 0.00018    | U        | 0.00018  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031922 | 8260B  | Isopropylbenzene             | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Methyl acetate               | 0.002      | U *3     | 0.002    | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031922 | 8260B  | Methyl Ethyl Ketone          | 0.0021     | U *3     | 0.0021   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031922 | 8260B  | methyl isobutyl ketone       | 0.0022     | U        | 0.0022   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031922 | 8260B  | Methyl tert-butyl ether      | 0.00039    | U *3     | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Methylcyclohexane            | 0.00032    | U *3     | 0.00032  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Methylene Chloride           | 0.0016     | U *3     | 0.0016   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-SW08-031922 | 8260B  | Styrene                      | 0.00039    | U        | 0.00039  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Tetrachloroethene            | 0.00037    | U        | 0.00037  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Toluene                      | 0.00015    | U        | 0.00015  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031922 | 8260B  | trans-1,2-Dichloroethene     | 0.00035    | U *3     | 0.00035  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | trans-1,3-Dichloropropene    | 0.00036    | U        | 0.00036  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Trichloroethene              | 0.00016    | U *3     | 0.00016  | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-SW08-031922 | 8260B  | Trichlorofluoromethane       | 0.00043    | U *3     | 0.00043  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Vinyl chloride               | 0.0002     | U *3     | 0.0002   | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8260B  | Xylenes, Total               | 0.00022    | U        | 0.00022  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-SW08-031922 | 8270D  | 1,1'-Biphenyl                | 0.00029    | U        | 0.00029  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | 2,2'-oxybis[1-chloropropane] | 0.0003     | U        | 0.0003   | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | 2,4,5-Trichlorophenol        | 0.002      | U        | 0.002    | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 2,4,6-Trichlorophenol        | 0.00057    | U        | 0.00057  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | 2,4-Dichlorophenol           | 0.0021     | U        | 0.0021   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 2,4-Dimethylphenol           | 0.0014     | U        | 0.0014   | 0.008  | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 2,4-Dinitrophenol            | 0.0068     | U        | 0.0068   | 0.016  | mg/L  | 0.016      | U        |
| EOS-SW08-031922 | 8270D  | 2,4-Dinitrotoluene           | 0.0002     | U        | 0.0002   | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | 2,6-Dinitrotoluene           | 0.000059   | U        | 0.000059 | 0.0008 | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | 2-Chloronaphthalene          | 0.00019    | U        | 0.00019  | 0.0016 | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | 2-Chlorophenol               | 0.00045    | U *+     | 0.00045  | 0.004  | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | 2-Methylnaphthalene          | 0.000052   | U        | 0.000052 | 0.0016 | mg/L  | 0.0016     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                     | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|-----------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031922 | 8270D  | 2-Methylphenol              | 0.00024    | U        | 0.00024  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | 2-Nitroaniline              | 0.001      | U        | 0.001    | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | 2-Nitrophenol               | 0.002      | U        | 0.002    | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 3 & 4 Methylphenol          | 0.00036    | U        | 0.00036  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | 3,3'-Dichlorobenzidine      | 0.0014     | U        | 0.0014   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | 3-Nitroaniline              | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 4,6-Dinitro-2-methylphenol  | 0.0047     | U        | 0.0047   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031922 | 8270D  | 4-Bromophenyl phenyl ether  | 0.00043    | U        | 0.00043  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | 4-Chloro-3-methylphenol     | 0.0018     | U        | 0.0018   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 4-Chloroaniline             | 0.0016     | U        | 0.0016   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 4-Chlorophenyl phenyl ether | 0.00051    | U **+    | 0.00051  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | 4-Nitroaniline              | 0.0013     | U        | 0.0013   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | 4-Nitrophenol               | 0.0059     | U        | 0.0059   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031922 | 8270D  | Acenaphthene                | 0.00025    | U        | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Acenaphthylene              | 0.00021    | U        | 0.00021  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Acetophenone                | 0.00053    | U        | 0.00053  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Anthracene                  | 0.00027    | U        | 0.00027  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Atrazine                    | 0.0005     | U **+    | 0.0005   | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Benzaldehyde                | 0.012      | U        | 0.012    | 0.032   | mg/L  | 0.032      | U        |
| EOS-SW08-031922 | 8270D  | Benzo[a]anthracene          | 0.000045   | U        | 0.000045 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031922 | 8270D  | Benzo[a]pyrene              | 0.000079   | U        | 0.000079 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031922 | 8270D  | Benzo[b]fluoranthene        | 0.000064   | U        | 0.000064 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031922 | 8270D  | Benzo[g,h,i]perylene        | 0.0003     | U        | 0.0003   | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Benzo[k]fluoranthene        | 0.000051   | U        | 0.000051 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031922 | 8270D  | Bis(2-chloroethoxy)methane  | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | Bis(2-chloroethyl)ether     | 0.00023    | U        | 0.00023  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | Bis(2-ethylhexyl) phthalate | 0.0014     | U        | 0.0014   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | Butyl benzyl phthalate      | 0.00038    | U        | 0.00038  | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | Caprolactam                 | 0.0012     | U        | 0.0012   | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | Carbazole                   | 0.00028    | U        | 0.00028  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Chrysene                    | 0.000054   | U        | 0.000054 | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031922 | 8270D  | Dibenz(a,h)anthracene       | 0.00004    | U        | 0.00004  | 0.00024 | mg/L  | 0.00024    | U        |
| EOS-SW08-031922 | 8270D  | Dibenzofuran                | 0.00021    | U **+    | 0.00021  | 0.0016  | mg/L  | 0.0016     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL      | RL      | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|----------|---------|-------|------------|----------|
| EOS-SW08-031922 | 8270D  | Diethyl phthalate                     | 0.00029    | U        | 0.00029  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Dimethyl phthalate                    | 0.00025    | U        | 0.00025  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Di-n-butyl phthalate                  | 0.00058    | U        | 0.00058  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Di-n-octyl phthalate                  | 0.00084    | U        | 0.00084  | 0.008   | mg/L  | 0.0080     | U        |
| EOS-SW08-031922 | 8270D  | Fluoranthene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Fluorene                              | 0.00019    | U        | 0.00019  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Hexachlorobenzene                     | 0.000063   | U        | 0.000063 | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031922 | 8270D  | Hexachlorobutadiene                   | 0.00041    | U        | 0.00041  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Hexachlorocyclopentadiene             | 0.0051     | U        | 0.0051   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031922 | 8270D  | Hexachloroethane                      | 0.00048    | U        | 0.00048  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Indeno[1,2,3-cd]pyrene                | 0.00006    | U        | 0.00006  | 0.00016 | mg/L  | 0.00016    | U        |
| EOS-SW08-031922 | 8270D  | Isophorone                            | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | Naphthalene                           | 0.00025    | U        | 0.00025  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Nitrobenzene                          | 0.00036    | U        | 0.00036  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | N-Nitrosodi-n-propylamine             | 0.00012    | U        | 0.00012  | 0.0004  | mg/L  | 0.00040    | U        |
| EOS-SW08-031922 | 8270D  | N-Nitrosodiphenylamine                | 0.0003     | U        | 0.0003   | 0.0016  | mg/L  | 0.0016     | U        |
| EOS-SW08-031922 | 8270D  | Pentachlorophenol                     | 0.0031     | U        | 0.0031   | 0.016   | mg/L  | 0.016      | U        |
| EOS-SW08-031922 | 8270D  | Phenanthrene                          | 0.00024    | U        | 0.00024  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-SW08-031922 | 8270D  | Phenol                                | 0.00054    | U        | 0.00054  | 0.004   | mg/L  | 0.0040     | U        |
| EOS-SW08-031922 | 8270D  | Pyrene                                | 0.00034    | U        | 0.00034  | 0.0008  | mg/L  | 0.00080    | U        |
| EOS-TB06-031922 | 8015C  | Gasoline Range Organics (C6-C9)       | 0.01       | U        | 0.01     | 0.02    | mg/L  | 0.020      | U        |
| EOS-TB06-031922 | 8260B  | 1,1,1-Trichloroethane                 | 0.00038    | U *3     | 0.00038  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,1,2,2-Tetrachloroethane             | 0.0004     | U        | 0.0004   | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.00046    | U *3     | 0.00046  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,1,2-Trichloroethane                 | 0.00035    | U        | 0.00035  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,1-Dichloroethane                    | 0.00041    | U *3     | 0.00041  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,1-Dichloroethene                    | 0.00039    | U *3     | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,2,4-Trichlorobenzene                | 0.00034    | U        | 0.00034  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,2-Dibromo-3-Chloropropane           | 0.002      | U        | 0.002    | 0.005   | mg/L  | 0.0050     | U        |
| EOS-TB06-031922 | 8260B  | 1,2-Dibromoethane                     | 0.00039    | U        | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,2-Dichlorobenzene                   | 0.00033    | U        | 0.00033  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,2-Dichloroethane                    | 0.00039    | U *3     | 0.00039  | 0.001   | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,2-Dichloropropane                   | 0.00043    | U *3     | 0.00043  | 0.001   | mg/L  | 0.0010     | U        |

MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY  
EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL     | RL     | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|---------|--------|-------|------------|----------|
| EOS-TB06-031922 | 8260B  | 1,3-Dichlorobenzene       | 0.0004     | U        | 0.0004  | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 1,4-Dichlorobenzene       | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | 2-Hexanone                | 0.0016     | U        | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031922 | 8260B  | Acetone                   | 0.0059     | J *3 B   | 0.0017  | 0.01   | mg/L  | 0.010      | U        |
| EOS-TB06-031922 | 8260B  | Benzene                   | 0.00015    | U *3     | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB06-031922 | 8260B  | Bromodichloromethane      | 0.00037    | U *3     | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Bromoform                 | 0.00048    | U        | 0.00048 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Bromomethane              | 0.0008     | U *3     | 0.0008  | 0.003  | mg/L  | 0.0030     | U        |
| EOS-TB06-031922 | 8260B  | Carbon disulfide          | 0.00045    | U *3     | 0.00045 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-TB06-031922 | 8260B  | Carbon tetrachloride      | 0.00038    | U *3     | 0.00038 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Chlorobenzene             | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Chloroethane              | 0.00051    | U *3     | 0.00051 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Chloroform                | 0.00037    | U *3     | 0.00037 | 0.002  | mg/L  | 0.0020     | U        |
| EOS-TB06-031922 | 8260B  | Chloromethane             | 0.00032    | U *3     | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | cis-1,2-Dichloroethene    | 0.00041    | U *3     | 0.00041 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | cis-1,3-Dichloropropene   | 0.00042    | U        | 0.00042 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Cyclohexane               | 0.00049    | U *3     | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Dibromochloromethane      | 0.00049    | U        | 0.00049 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Dichlorodifluoromethane   | 0.00067    | U *3     | 0.00067 | 0.003  | mg/L  | 0.0030     | U        |
| EOS-TB06-031922 | 8260B  | Ethylbenzene              | 0.00018    | U        | 0.00018 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB06-031922 | 8260B  | Isopropylbenzene          | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Methyl acetate            | 0.002      | U *3     | 0.002   | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031922 | 8260B  | Methyl Ethyl Ketone       | 0.0021     | U *3     | 0.0021  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031922 | 8260B  | methyl isobutyl ketone    | 0.0022     | U        | 0.0022  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031922 | 8260B  | Methyl tert-butyl ether   | 0.00039    | U *3     | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Methylcyclohexane         | 0.00032    | U *3     | 0.00032 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Methylene Chloride        | 0.0016     | U *3     | 0.0016  | 0.005  | mg/L  | 0.0050     | U        |
| EOS-TB06-031922 | 8260B  | Styrene                   | 0.00039    | U        | 0.00039 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Tetrachloroethene         | 0.00037    | U        | 0.00037 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Toluene                   | 0.00015    | U        | 0.00015 | 0.0005 | mg/L  | 0.00050    | U        |
| EOS-TB06-031922 | 8260B  | trans-1,2-Dichloroethene  | 0.00035    | U *3     | 0.00035 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | trans-1,3-Dichloropropene | 0.00036    | U        | 0.00036 | 0.001  | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Trichloroethene           | 0.00016    | U *3     | 0.00016 | 0.0005 | mg/L  | 0.00050    | U        |

## MARATHON PIPELINE RELEASE E22505 SURFACE WATER ANALYTICAL RESULTS SUMMARY

EUROFINS REPORT NO. J214002-1

| Sample ID       | Method | Analyte                | Lab Result | Lab Qual | MDL     | RL    | Units | Val Result | Val Qual |
|-----------------|--------|------------------------|------------|----------|---------|-------|-------|------------|----------|
| EOS-TB06-031922 | 8260B  | Trichlorofluoromethane | 0.00043    | U *3     | 0.00043 | 0.001 | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Vinyl chloride         | 0.0002     | U *3     | 0.0002  | 0.001 | mg/L  | 0.0010     | U        |
| EOS-TB06-031922 | 8260B  | Xylenes, Total         | 0.00022    | U        | 0.00022 | 0.001 | mg/L  | 0.0010     | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J214002-1

Method: 8260B

| Validation Element                                                                                                                                                                  | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                           | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                 | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 9/24/2021, Inst. CMS25                                 | See Ical recalculation sheet below                                                                                         |
|                                                                                                                                                                                     | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 9/24/2021, Inst. CMS25                                 | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                     | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 453, Batch 619884<br>9/23/2021, CMS25, chloroethane | Reported chloroethane 5 ug/l RRF: 0.2201<br>$(27798*50)/(1262767*5) = 0.2201$                                              |
|                                                                                                                                                                                     |                                                                                                                                                                                                            | L4 Page 453, Batch 619884<br>9/23/2021, CMS25, chloroethane | Reported chloroethane ave. RRF: 0.2159<br>$(0.259+0.2255+0.2201+0.2447+0.2084+0.2022+0.1903+0.1767)/8 = 0.2159$            |
| L4 Page 453, Batch 619884<br>9/23/2021, CMS25, chloroethane                                                                                                                         | Reported chloroethane %RSD = 12.7%<br>$(0.0273/0.2159)*100 = 12.7\%$                                                                                                                                       |                                                             |                                                                                                                            |
| Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the |                                                                                                                                                                                                            |                                                             |                                                                                                                            |
| <b>SHOW ALL WORK FOR RECALCULATIONS</b>                                                                                                                                             |                                                                                                                                                                                                            |                                                             |                                                                                                                            |
| Tune                                                                                                                                                                                | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | L4 Pg. 680-682, LIMS ID BFB,<br>03/23/2022 08:03            | m/z 96 = 6.2%<br>$(1736/28032)*100 = 6.2\%$                                                                                |
| ICV                                                                                                                                                                                 | Check result                                                                                                                                                                                               | L4 Pg. 648, ICV 500-620439/3,<br>09/27/2021 11:41           | chloroethane Conc. = 42.6 ug/l<br>$(341022*50)/(1853628*0.2159) = 42.6 \text{ ug/l}$                                       |
|                                                                                                                                                                                     | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 645, ICV 500-620439/3,<br>09/27/2021 11:41           | chloroethane RRF. = 0.1840<br>$(341022*50)/(1853628*50) = 0.1840$                                                          |
|                                                                                                                                                                                     | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 645, ICV 500-620439/3,<br>09/27/2021 11:41           | chloroethane %D = 14.8%<br>$(\text{abs}(0.2159-0.184)/0.2159)*100 = 14.8\%$                                                |
| A CCV applicable to our samples                                                                                                                                                     | Check result                                                                                                                                                                                               | L4 Pg. 655, CCVIS 500-648288/2,<br>03/23/2022 08:38         | chloroethane Conc. = 49 ug/l<br>$(156435*50)/(739683*0.2159) = 49 \text{ ug/l}$                                            |
|                                                                                                                                                                                     | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 652, CCVIS 500-648288/2,<br>03/23/2022 08:38         | Chloroethane CCRF = 0.2115<br>$(156435*50)/(739683*50 \text{ ug/l}) = 0.2115$                                              |
|                                                                                                                                                                                     | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 652, CCVIS 500-648288/2,<br>03/23/2022 08:38         | Chloroethane %D = 2%<br>$(\text{abs}(0.2159-0.2115)/0.2159)*100 = 2\%$                                                     |
| Method Blank                                                                                                                                                                        | Check result                                                                                                                                                                                               | L4 Pg. 685, MB 500-648288/6,<br>03/23/2022 10:27            | acetone conc. = 0.00275 mg/l<br>$(1318*50 \text{ ug/l})/(673641*0.0356)/(1000 \text{ ug/mg}) = 0.00275 \text{ mg/l}$       |
| Surrogate                                                                                                                                                                           | Recalculate one %R                                                                                                                                                                                         | L4 Pg. 237, EOS-SW03-031922<br>03/23/2022 10:53             | 1,2-Dichloroethane-d4 %R = 105.3%<br>$(52.6 \text{ ug/l}/50 \text{ ug/l})*100 = 105.3\%$                                   |
| MS                                                                                                                                                                                  | Check result                                                                                                                                                                                               | NA                                                          |                                                                                                                            |
|                                                                                                                                                                                     | Recalculate one %R                                                                                                                                                                                         | NA                                                          |                                                                                                                            |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J214002-1

Method: 8260B

|                                                               |                                                |                                                                 |                                                                                                 |
|---------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| MSD                                                           | Check result                                   | NA                                                              |                                                                                                 |
|                                                               | Recalculate one %R                             | NA                                                              |                                                                                                 |
|                                                               | Recalculate one RPD value between MS and MSD   | NA                                                              |                                                                                                 |
| LCS                                                           | Check result                                   | L4 Pg. 689-692, Sample: LCS 500-648288/4<br>03/23/2022 at 09:33 | chloroethane Conc. = 0.0497 mg/l<br>(151365*50 ug/l)/(704893*0.2159)/(1000 ug/mg) = 0.0497 mg/l |
|                                                               | Recalculate one %R                             | L2 Pg. 37, Sample: LCS 500-648288/4<br>03/23/2022 at 09:33      | chloroethane %R = 99%<br>(0.0497 mg/l/0.0500 mg/l)*100 = 99%                                    |
| LCSD                                                          | Check result                                   | NA - No LCSD                                                    |                                                                                                 |
|                                                               | Recalculate one %R                             | NA - No LCSD                                                    |                                                                                                 |
|                                                               | Recalculate one RPD value between LCS and LCSD | NA - No LCSD                                                    |                                                                                                 |
| Internal Standards                                            | Recalculate one %R                             | NA - %Rs were not provided                                      | IS areas were evaluated                                                                         |
|                                                               | Recalculate one delta RT                       | NA - %Rs were not provided                                      | IS RTs were evaluated and were within acceptable limits.                                        |
| Sample Result for EOS-SW05-031722                             | Check result                                   | L4 Pg. 233-235,<br>03/23/2022 at 10:53                          | Acetone Conc. = 0.0070 mg/l<br>(3099*50 ug/l)/(621889*0.0356)/(1000 ug/mg) = 0.0070 mg/l        |
| MDL for _____                                                 | Check result                                   | NA - MDLs no change for aqueous undiluted samples               |                                                                                                 |
| RL for _____                                                  | Check result                                   | NA - RLs no change for aqueous undiluted samples                |                                                                                                 |
| Convert $\mu\text{g}/\text{m}^3$ to ppbV (air only) for _____ | Check result                                   | NA                                                              |                                                                                                 |

Formulas:

\*  $\text{Conc. (mg/kg)} = \{(\text{Raw Conc. in ug/L}) \times (\text{Vol. in L}) \times \text{DF}\} / \{(\text{Sample mass in kg}) \times (\text{fractional solids}) \times (1000)\}$

\*\*  $\text{Serial dilution conc. (ug/L)} = (\text{Raw Conc. in ug/L}) \times (\text{DF, typically 5})$

\*\*\*  $\%R = [(\text{Measured Value}) / (\text{True Value})] \times 100$

\*\*\*\*  $\%R = \{(\text{Spike sample result}) - (\text{Sample result})\} / (\text{Spike added}) \times 100$

$\text{RPD} = [(A-B) / \{(A + B)/2\}] \times 100$

$\text{Percent difference} = [(\text{Original Result} - \text{Diluted Result}) / \text{Original Result}] \times 100$

**Report No: J214002-1**

| Initial Calibration  | VOC          |        |            |        |        |        |        |        |
|----------------------|--------------|--------|------------|--------|--------|--------|--------|--------|
| Inst. CMS25          | chloroethane |        | L4 Pg. 453 |        |        |        |        |        |
| Concentration (ug/L) | 1.0          | 2.0    | 5.0        | 20.0   | 50.0   | 100.0  | 150.0  | 200.0  |
| Rf                   | 0.2590       | 0.2255 | 0.2201     | 0.2447 | 0.2084 | 0.2022 | 0.1903 | 0.1767 |

|         |        |   |
|---------|--------|---|
| Std Dev | 0.0273 |   |
| Mean Rf | 0.2159 | ✓ |
| %RSD    | 12.67  | ✓ |

Concentration 5 (ug/L) Rf Check

chloroethane area = 27798, 5.0 ug/L L4 Pg. 515  
 Fluorobenzene (internal standard) area = 1262767, 50.0 ug/L L4 Pg. 516

$$\frac{27798}{1262767} \times \frac{50.0 \text{ ug/L}}{5.0 \text{ ug/L}} = 0.2201 \quad \checkmark$$

Concentration 100 (ug/L) Rf Check

chloroethane area = 583536, 100 ug/L L4 Pg. 528  
 Fluorobenzene (internal standard) area = 1443297, 50 ug/L L4 Pg. 529

$$\frac{583536}{1443297} \times \frac{50.0 \text{ ug/L}}{100 \text{ ug/L}} = 0.2022 \quad \checkmark$$

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J214002-1

Method: 8270D

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                                  | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 3/16/2022, Inst. CMS11                                        | See Ical recalculation sheet below                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 3/16/2022, Inst. CMS11                                        | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 828, Batch 647303<br>3/16/2022, CMS11, phenol              | Reported phenol 8.0 ug/l RRF: 1.3338<br>$(1737054 * 3.2 \text{ ug/ml}) / (520934 * 8 \text{ ug/ml}) = 1.3338$                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                            | L4 Page 828, Batch 647303<br>3/16/2022, CMS11, phenol              | Reported phenol ave. RRF: 1.2701<br>$(1.3146 + 1.1201 + 1.0883 + 1.0864 + 1.2136 + 1.2897 + 1.3338 + 1.4488 + 1.4061 + 1.3999) / 10 = 1.2701$ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L4 Page 828, Batch 647303<br>3/16/2022, CMS11, phenol                                                                                                                                                      | Reported phenol %RSD = 10.7%<br>$(0.1359 / 1.2701) * 100 = 10.7\%$ |                                                                                                                                               |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="center"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                                    |                                                                                                                                               |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm DFTPP Percent Relative Abundance                                                                                                                                                                   | L4 Pg. 1133, LIMS ID DFTPP, 3/23/2022 at 07:54                     | m/z 199 = 6.8%<br>$(44608 / 652288) * 100 = 6.8\%$                                                                                            |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Check result                                                                                                                                                                                               | L4 Pg. 1097, LIMS ID ICV, 03/16/2022 17:04                         | phenol Conc. = 7.17 ug/ml<br>$(1113697 * 3.2 \text{ ug/ml}) / (391527 * 1.2701) = 7.17 \text{ ug/ml}$                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 1095, Samp ID ICV 500-647303/13, 03/16/2022 17:04           | phenol RRF. = 1.300<br>$(1113697 * 3.2 \text{ ug/ml}) / (391527 * 7.0 \text{ ug/ml}) = 1.300$                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1095, Samp ID ICV 500-647303/13, 03/16/2022 17:04           | phenol %D = 2.4%<br>$(\text{abs}(1.2701 - 1.300) / 1.2701) * 100 = 2.4\%$                                                                     |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Check result                                                                                                                                                                                               | L4 Pg. 1104, CCVIS 500-648322/2, 03/23/2022 08:18                  | phenol Conc. = 8.34 ug/ml<br>$(1104366 * 3.2 \text{ ug/ml}) / (333532 * 1.2701) = 8.34 \text{ ug/ml}$                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one RRF                                                                                                                                                                                        | L4 Pg. 1101, CCVIS 500-648322/2, 03/23/2022 08:18                  | phenol CCRF = 1.514<br>$(1104366 * 3.2 \text{ ug/ml}) / (333532 * 7.0 \text{ ug/ml}) = 1.514$                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1101, CCVIS 500-648322/2, 03/23/2022 08:18                  | phenol %D = 19.2%<br>$(\text{abs}(1.514 - 1.2701) / 1.2701) * 100 = 19.2\%$                                                                   |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Check result                                                                                                                                                                                               | NA - no detects                                                    |                                                                                                                                               |
| Surrogate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Recalculate one %R                                                                                                                                                                                         | L4 Pg. 732, EOS-SW03-031922 03/23/2022 10:45                       | Phenol-d5 %R = 41.9%<br>$(4.19 \text{ ug/ml} / 10 \text{ ug/ml}) * 100 = 41.9\%$                                                              |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J214002-1

Method: 8270D

|                                                  |                                                |                                                                           |                                                                                                                                        |
|--------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| MS                                               | Check result                                   | NA                                                                        |                                                                                                                                        |
|                                                  | Recalculate one %R                             | NA                                                                        |                                                                                                                                        |
| MSD                                              | Check result                                   | NA                                                                        |                                                                                                                                        |
|                                                  | Recalculate one %R                             | NA                                                                        |                                                                                                                                        |
|                                                  | Recalculate one RPD value between MS and MSD   | NA                                                                        |                                                                                                                                        |
| LCS                                              | Check result                                   | L4 Pg. 1151, Sample: LCS 500-648212/2-A<br>03/23/2022 09:57               | phenol Conc. = 0.0251 mg/l<br>(953272*3.2 ug/ml)/(382996*1.2703) = 6.27 ug/ml<br>= (6.27 ug/ml/250 ml) = 0.0251 mg/l                   |
|                                                  | Recalculate one %R                             | Summary Report Pg. 41,<br>Sample: LCS 500-648212/2-A<br>03/23/2022 09:57  | phenol %R = 78%<br>(0.0251 mg/l/0.032 mg/l)*100 = 78%                                                                                  |
| LCSD                                             | Check result                                   | L4 Pg. 1160 Sample: LCSD 500-648212/3-A<br>03/23/2022 10:21               | phenol Conc. = 0.0247 mg/l<br>(949666*3.2 ug/ml)/(387227*1.2703) = 6.18 ug/ml<br>= (6.18 ug/ml/250 ml) = 0.0247 mg/l                   |
|                                                  | Recalculate one %R                             | Summary Report Pg. 43,<br>Sample: LCSD 500-648212/3-A<br>03/23/2022 10:21 | phenol %R = 77%<br>(0.0247 mg/l/0.032 mg/l)*100 = 77%                                                                                  |
|                                                  | Recalculate one RPD value between LCS and LCSD | Summary Report Pg. 43,<br>Sample: LCSD 500-648212/3-A<br>03/23/2022 10:21 | phenol RPD = 1%<br>abs(0.0251 mg/l-0.0247 mg/l)/((0.0251 mg/l+0.0247 mg/l)/2)*100 = 1%                                                 |
| Internal Standards                               | Recalculate one %R                             | NA - %Rs were not provided                                                | IS areas were evaluated and were within acceptable limits.                                                                             |
|                                                  | Recalculate one delta RT                       | NA - %Rs were not provided                                                | IS RTs were evaluated and were within acceptable limits.                                                                               |
| Sample Result for EOS-SW04-031922                | Check result                                   | L4 Pg. 743,<br>03/23/2022 11:09                                           | Diethyl phthalate Conc. = 0.00064 mg/l<br>(47846*3.2 ug/ml)/(739234*1.3235) = 0.1565 ug/ml<br>= (0.1565 ug/ml/245.2 ml) = 0.00064 mg/l |
| MDL for _____                                    | Check result                                   | NA - MDLs no change for aqueous undiluted samples                         |                                                                                                                                        |
| RL for _____                                     | Check result                                   | NA - RLs no change for aqueous undiluted samples                          |                                                                                                                                        |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                   | NA                                                                        |                                                                                                                                        |

Formulas:

\*  $\text{Conc. (mg/kg)} = \{(\text{Raw Conc. in ug/L}) \times (\text{Vol. in L}) \times \text{DF}\} / \{(\text{Sample mass in kg}) \times (\text{fractional solids}) \times (1000)\}$

\*\*  $\text{Serial dilution conc. (ug/L)} = (\text{Raw Conc. in ug/L}) \times (\text{DF, typically 5})$

\*\*\*  $\%R = [(\text{Measured Value}) / (\text{True Value})] \times 100$

\*\*\*\*  $\%R = \{(\text{Spike sample result}) - (\text{Sample result})\} / (\text{Spike added}) \times 100$

$\text{RPD} = [(\text{A}-\text{B}) / \{(\text{A} + \text{B})/2\}] \times 100$

$\text{Percent difference} = [(\text{Original Result} - \text{Diluted Result}) / \text{Original Result}] \times 100$

**J214002-1**

Initial Calibration 3/16/2022

SVOC

Inst. CMS11

phenol

pg. 828

Concentration (ug/mL)

Rf

| 0.1    | 0.2    | 0.4    | 1.0    | 2.0    | 4.0    | 8.0    | 10.0   | 12.0   | 14.0   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.3146 | 1.1201 | 1.0883 | 1.0864 | 1.2136 | 1.2897 | 1.3338 | 1.4488 | 1.4061 | 1.3999 |

Std Dev

0.1359

Mean Rf

1.2701



%RSD

10.7



Concentration 0.2 (ug/mL) Rf Check

phenol area = 16987, 0.2 ug/mL pg. 939

1,4-dichlorobenzene-d4 (internal standard) area = 242657, 3.2 ug/mL (pg. 939)

$$\frac{16987}{242657} \times \frac{3.2 \text{ ug/mL}}{0.2 \text{ ug/mL}} = 1.1201 \quad \checkmark$$

Concentration 8.0 (ug/mL) Rf Check

phenol area = 1737054, 8.0 ug/mL pg. 851

1,4-dichlorobenzene-d4 (internal standard) area = 520934, 3.2 ug/mL (pg. 851)

$$\frac{1737054}{520934} \times \frac{3.2 \text{ ug/mL}}{8.0 \text{ ug/mL}} = 1.3338 \quad \checkmark$$

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: J214002-1

Method: 8015C

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                            | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 4/10/2021, INST13-14                                    | See Ical linear regression recalculation                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        | Ical 4/10/2021, INST13-14                                    | CCV was within associated Ical/ICV limits, and all samples within 12-hours of CCV.                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 1208-1259<br>Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 1208-1259<br>Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 1208-1259<br>Ical 4/10/2021, INST13-14, GRO          | See attached GRO linear regression recalculation                                                                           |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                              |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB/DFTPP Percent Relative Abundance                                                                                                                                                               | NA                                                           |                                                                                                                            |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Pg. 1259, Sample: ICV 500-592618/11<br>4/10/2021 at 18:59 | GRO Conc. = 363 ug/l<br>(20672016-495016.43)/55585.941 = 363 ug/l                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | NA                                                           | RFs not applicable                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1259, Sample: ICV 500-592618/11<br>4/10/2021 at 18:59 | GRO %D = -10.1%<br>(363 ug/l - 404 ug/l)/404 ug/l)*100 = -10.1%                                                            |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Pg. 1267, Sample: CCV 500-648223/2<br>03/23/2022 at 00:25 | GRO Conc. = 375 ug/l<br>(21359169-495016.43)/55585.941 = 375 ug/l                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | NA                                                           | RFs not applicable                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Pg. 1267, Sample: CCV 500-648223/2<br>03/23/2022 at 00:25 | GRO %D = -6.2%<br>(375 ug/l - 400 ug/l)/400 ug/l)*100 = -6.2%                                                              |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Check result                                                                                                                                                                                               | L4 Pg. 1291, Sample: MB 500-648223/3<br>03/23/2022 at 01:01  | GRO not detected                                                                                                           |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

**Data Package Number: J214002-1**

**Method: 8015C**

|                                                  |                                                   |                                                             |                                                                                          |
|--------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Surrogate                                        | Recalculate one %R                                | L4 Pg. 1176, Sample: EOS-SW03-031922<br>03/23/2022 02:12    | 4-Bromofluorobenzene %R = 96%<br>(19.2 ug/l/20 ug/l)*100 = 96%                           |
| MS                                               | Check result                                      | L4 Pg. 1300, Lab ID: 500-214002-2 MS<br>03/23/2022 at 03:25 | GRO Conc. = 0.327 mg/l<br>((18674615-495016.43)/55585.941)/1000 ug/mg = 0.327 mg/l       |
|                                                  | Recalculate one %R                                | L2 Pg. 44, Lab ID: 500-214002-2 MS<br>03/23/2022 at 03:25   | GRO %R = 81%<br>(0.327 mg/l/0.403 mg/l)*100 = 81%                                        |
| MSD                                              | Check result                                      | L4 Pg. 1305, Lab ID: 500-214002-2 MSD<br>03/23/2022 04:01   | GRO Conc. = 0.340 mg/l<br>((19387204-495016.43)/55585.941)/1000 ug/mg = 0.340 mg/l       |
|                                                  | Recalculate one %R                                | L2 Pg. 44, Lab ID: 500-214002-2 MSD<br>03/23/2022 04:01     | GRO %R = 84%<br>(0.340 mg/l/0.403 mg/l)*100 = 84%                                        |
|                                                  | Recalculate one RPD value<br>between MS and MSD   | L2 Pg. 44, Lab ID: 500-214002-2 MSD<br>03/23/2022 04:01     | GRO RPD = 4%<br>(abs(0.327 mg/l-0.340 mg/l)/((0.327 mg/l+0.340 mg/l)/2))*100 = 4%        |
| LCS                                              | Check result                                      | L4 Pg. 1295, Lab ID: LCS 500-648223/4<br>03/23/2022 01:37   | GRO Conc. = 0.331 mg/l<br>((18904734-495016.43)/55585.941)/1000 ug/mg = 0.331 mg/l       |
|                                                  | Recalculate one %R                                | L2 Pg. 43, Lab ID: LCS 500-648223/4<br>03/23/2022 01:37     | GRO %R = 82%<br>(0.331 mg/l/0.403 mg/l)*100 = 82%                                        |
| LCSD                                             | Check result                                      | NA                                                          |                                                                                          |
|                                                  | Recalculate one %R                                | NA                                                          |                                                                                          |
|                                                  | Recalculate one RPD value<br>between LCS and LCSD | NA                                                          |                                                                                          |
| Internal Standards                               | Recalculate one %R                                | NA                                                          |                                                                                          |
|                                                  | Recalculate one delta RT                          | NA                                                          |                                                                                          |
| Sample Result for<br>EOS-SW04-0319222            | Check result                                      | L2 Pg. 1334, Lab ID: 500-214002-2<br>03/23/2022 05:33       | DRO Conc. = 0.11 mg/l<br>((392730229-347436320)/4279389.2)*(2.5 ml/249.2 ml) = 0.11 mg/l |
| MDL for _____                                    | Check result                                      | NA - MDLs no change for aqueous<br>undiluted samples        |                                                                                          |
| RL for _____                                     | Check result                                      | NA - RLs no change for aqueous undiluted<br>samples         |                                                                                          |
| Convert µg/m <sup>3</sup> to ppbV (air only) for | Check result                                      | NA                                                          |                                                                                          |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**Report No: J214002-1**

GRO by 8015C - Initial Calibration

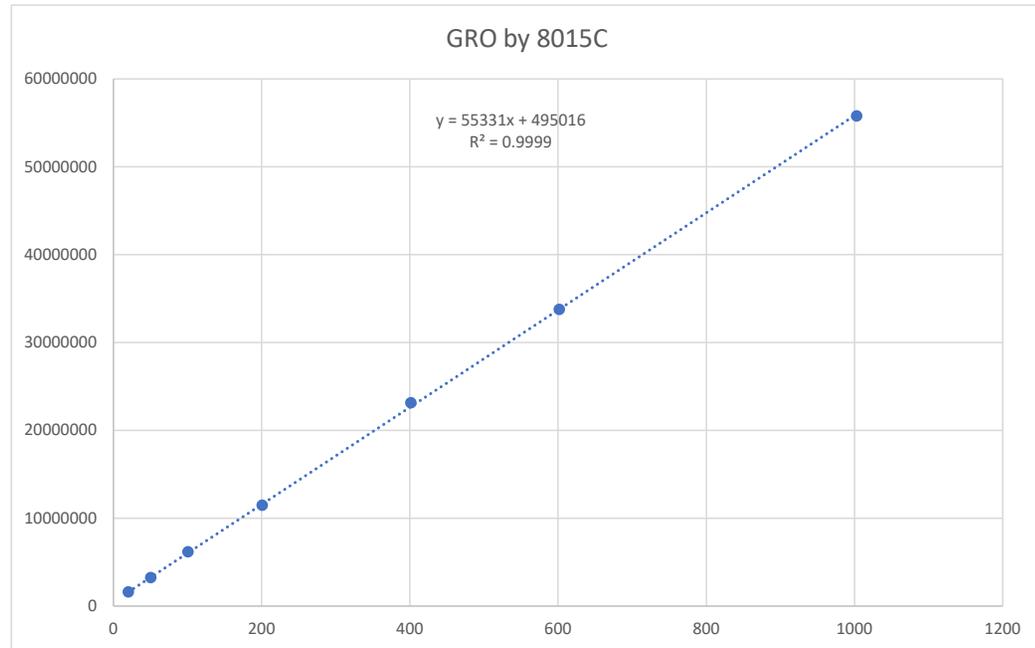
4/10/2021

**Inst. INST13-14**

**Linear Calibration Recalculation**

Page(s): 1208-1259

| C(ug/L) | Resp.    | Resp. Ratio<br>(Resp <sub>x</sub> /C <sub>x</sub> ) |
|---------|----------|-----------------------------------------------------|
| 20.052  | 1611906  | 80386.29563                                         |
| 50.13   | 3244891  | 64729.52324                                         |
| 100.26  | 6178962  | 61629.38360                                         |
| 200.52  | 11499488 | 57348.33433                                         |
| 401.04  | 23149413 | 57723.45153                                         |
| 601.56  | 33783070 | 56159.10300                                         |
| 1002.6  | 55788408 | 55643.73429                                         |



|           |             |
|-----------|-------------|
| Slope     | 55331.0000  |
| intercept | 495016.4300 |
| R         | 0.99995     |
| R-squared | 0.99990     |

ICV Recalculation Pg. 1259

|           |            |           |             |
|-----------|------------|-----------|-------------|
| GRO Resp. | Slope      | Intercept | Amount ug/l |
| 20672016  | 55331.0000 | 495016.43 | 364.7       |

$(20672016 - 495016.43) / 55585.941$

\*(X) = target analyte

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                  |                                                |                                                |
|-------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505 | <b>TO/TOLIN No.</b>                            | 68HE0519F0071/0001DC102                        |
| <b>Document Tracking No.</b>              | 1154e                            | <b>Technical Reviewer (signature and date)</b> | <i>Harry N. Ellis III</i> 20 April 2022        |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/19/2022     | <b>Laboratory</b>                              | Teklab, Inc. – Collinsville, IL                |
| <b>Laboratory Report No.</b>              | 22030865                         | <b>Analyses</b>                                | Volatile organic compounds by EPA Method TO-15 |
| <b>Samples and Matrix</b>                 | One air sample                   | <b>Collection Date(s)</b>                      | March 12, 2022                                 |
| <b>Field Duplicate Pairs</b>              | None                             | <b>Field QC Blanks</b>                         | None                                           |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No qualification of data was required for this data package. The results may be used as reported by the laboratory.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Instrument Performance Checks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Initial Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Continuing Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Calibration Verification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Method blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Field blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Interference Check Samples (ICS) (ICP metals only):**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Surrogates and labeled compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**MS/MSDs:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Post digestion spikes:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Serial dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Laboratory duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Field duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**LCSs/LCSDs:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Sample dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Re-extraction and reanalysis:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Second column confirmation (GC and HPLC analyses only):**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Internal Standards:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Target analyte identification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Analyte quantitation and MDLs/RLs:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                                                                     |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y                  | No concentrations were reported between the method detection limit (MDL) and reporting limit (RL). Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Other [specify]:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



### DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

#### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
 TEKLAB REPORT NO. 22030865

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA02-031322 | TO-15  | 1,1,1-Trichloroethane                 | ND         |          | 0.27 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA02-031322 | TO-15  | 1,1,2,2-Tetrachloroethane             | ND         |          | 0.27 | 3.43 | ug/m3 | 3.43       | U        |
| EOS-AA02-031322 | TO-15  | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND         |          | 0.38 | 3.83 | ug/m3 | 3.83       | U        |
| EOS-AA02-031322 | TO-15  | 1,1,2-Trichloroethane                 | ND         |          | 0.22 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA02-031322 | TO-15  | 1,1-Dichloroethane                    | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA02-031322 | TO-15  | 1,1-Dichloroethene                    | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031322 | TO-15  | 1,2,4-Trichlorobenzene                | ND         |          | 1.34 | 3.71 | ug/m3 | 3.71       | U        |
| EOS-AA02-031322 | TO-15  | 1,2,4-Trimethylbenzene                | ND         |          | 0.49 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031322 | TO-15  | 1,2-Dibromoethane                     | ND         |          | 0.69 | 3.84 | ug/m3 | 3.84       | U        |
| EOS-AA02-031322 | TO-15  | 1,2-Dichlorobenzene                   | ND         |          | 0.48 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031322 | TO-15  | 1,2-Dichloroethane                    | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA02-031322 | TO-15  | 1,2-Dichloropropane                   | ND         |          | 0.23 | 2.31 | ug/m3 | 2.31       | U        |
| EOS-AA02-031322 | TO-15  | 1,3,5-Trimethylbenzene                | ND         |          | 0.59 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031322 | TO-15  | 1,3-Butadiene                         | ND         |          | 0.29 | 2.21 | ug/m3 | 2.21       | U        |
| EOS-AA02-031322 | TO-15  | 1,3-Dichlorobenzene                   | ND         |          | 0.24 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031322 | TO-15  | 1,4-Dichlorobenzene                   | ND         |          | 0.36 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031322 | TO-15  | 2-Butanone                            | ND         |          | 0.29 | 2.95 | ug/m3 | 2.95       | U        |
| EOS-AA02-031322 | TO-15  | 2-Hexanone                            | ND         |          | 0.49 | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031322 | TO-15  | 4-Methyl-2-pentanone                  | ND         |          | 0.2  | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031322 | TO-15  | Acetone                               | ND         |          | 1.47 | 4.75 | ug/m3 | 4.75       | U        |
| EOS-AA02-031322 | TO-15  | Benzene                               | 3.26       |          | 0.16 | 1.60 | ug/m3 | 3.26       |          |
| EOS-AA02-031322 | TO-15  | Bromodichloromethane                  | ND         |          | 0.34 | 3.35 | ug/m3 | 3.35       | U        |
| EOS-AA02-031322 | TO-15  | Bromoform                             | ND         |          | 0.31 | 5.17 | ug/m3 | 5.17       | U        |
| EOS-AA02-031322 | TO-15  | Bromomethane                          | ND         |          | 0.23 | 1.94 | ug/m3 | 1.94       | U        |
| EOS-AA02-031322 | TO-15  | Carbon disulfide                      | ND         |          | 0.31 | 1.56 | ug/m3 | 1.56       | U        |
| EOS-AA02-031322 | TO-15  | Carbon tetrachloride                  | ND         |          | 0.31 | 3.15 | ug/m3 | 3.15       | U        |
| EOS-AA02-031322 | TO-15  | Chlorobenzene                         | ND         |          | 0.37 | 2.30 | ug/m3 | 2.30       | U        |
| EOS-AA02-031322 | TO-15  | Chloroethane                          | ND         |          | 0.21 | 1.32 | ug/m3 | 1.32       | U        |
| EOS-AA02-031322 | TO-15  | Chloroform                            | ND         |          | 0.2  | 2.44 | ug/m3 | 2.44       | U        |
| EOS-AA02-031322 | TO-15  | Chloromethane                         | 1.05       |          | 0.1  | 1.03 | ug/m3 | 1.05       |          |
| EOS-AA02-031322 | TO-15  | cis-1,2-Dichloroethene                | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031322 | TO-15  | cis-1,3-dichloropropene               | ND         |          | 0.32 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA02-031322 | TO-15  | Cyclohexane                           | 7.54       |          | 0.34 | 1.72 | ug/m3 | 7.54       |          |
| EOS-AA02-031322 | TO-15  | Dibromochloromethane                  | ND         |          | 0.43 | 4.26 | ug/m3 | 4.26       | U        |
| EOS-AA02-031322 | TO-15  | Dichlorodifluoromethane               | ND         |          | 0.25 | 2.47 | ug/m3 | 2.47       | U        |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
 TEKLAB REPORT NO. 22030865

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA02-031322 | TO-15  | Dichlorotetrafluoroethane | ND         |          | 0.35 | 3.50 | ug/m3 | 3.50       | U        |
| EOS-AA02-031322 | TO-15  | Ethyl acetate             | ND         |          | 0.61 | 3.60 | ug/m3 | 3.60       | U        |
| EOS-AA02-031322 | TO-15  | Ethylbenzene              | ND         |          | 0.22 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA02-031322 | TO-15  | Hexachlorobutadiene       | ND         |          | 0.32 | 5.33 | ug/m3 | 5.33       | U        |
| EOS-AA02-031322 | TO-15  | m,p-Xylene                | ND         |          | 0.39 | 4.34 | ug/m3 | 4.34       | U        |
| EOS-AA02-031322 | TO-15  | Methyl tert-butyl ether   | ND         |          | 0.18 | 1.80 | ug/m3 | 1.80       | U        |
| EOS-AA02-031322 | TO-15  | Methylene chloride        | ND         |          | 0.31 | 3.47 | ug/m3 | 3.47       | U        |
| EOS-AA02-031322 | TO-15  | n-Heptane                 | 12.5       |          | 0.41 | 2.05 | ug/m3 | 12.5       |          |
| EOS-AA02-031322 | TO-15  | n-Hexane                  | 33         |          | 0.18 | 1.76 | ug/m3 | 33.0       |          |
| EOS-AA02-031322 | TO-15  | o-Xylene                  | ND         |          | 0.56 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA02-031322 | TO-15  | p-Ethyltoluene            | ND         |          | 0.25 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031322 | TO-15  | Propylene                 | ND         |          | 0.1  | 0.86 | ug/m3 | 0.86       | U        |
| EOS-AA02-031322 | TO-15  | Styrene                   | ND         |          | 0.47 | 2.13 | ug/m3 | 2.13       | U        |
| EOS-AA02-031322 | TO-15  | Tetrachloroethene         | ND         |          | 0.41 | 3.39 | ug/m3 | 3.39       | U        |
| EOS-AA02-031322 | TO-15  | Tetrahydrofuran           | ND         |          | 0.47 | 1.47 | ug/m3 | 1.47       | U        |
| EOS-AA02-031322 | TO-15  | Toluene                   | 4.22       |          | 0.23 | 1.88 | ug/m3 | 4.22       |          |
| EOS-AA02-031322 | TO-15  | trans-1,2-Dichloroethene  | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031322 | TO-15  | trans-1,3-dichloropropene | ND         |          | 0.23 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA02-031322 | TO-15  | Trichloroethene           | ND         |          | 0.27 | 2.69 | ug/m3 | 2.69       | U        |
| EOS-AA02-031322 | TO-15  | Trichlorofluoromethane    | ND         |          | 0.28 | 2.81 | ug/m3 | 2.81       | U        |
| EOS-AA02-031322 | TO-15  | Vinyl acetate             | ND         |          | 0.18 | 1.76 | ug/m3 | 1.76       | U        |
| EOS-AA02-031322 | TO-15  | Vinyl chloride            | ND         |          | 0.28 | 1.28 | ug/m3 | 1.28       | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22030865

Method: TO-15

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                                    | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | Ical 3/01/2022, Method file T15_U2022_03.M                           | See Benzene Ical reproduction at end of recalculations                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        |                                                                      | Ical at correct frequency and samples run within 12 hours of CCV                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 155, CC-U220301-0.40<br>3/01/2022 at 21:01                   | Benzene RRF = 0.813<br>$(32525 * 10 \text{ ppbv}) / (976277 * 0.41 \text{ ppbv}) = 0.813$                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 155, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M    | Calculated RRF: Benzene = 0.825<br>$(0.853 + 0.822 + 0.813 + 0.838 + 0.837 + 0.828 + 0.821 + 0.791) / 8 = 0.825$           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L4 Page 155, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M                                                                                                                                          | Benzene %RSD = 2.28%<br>$(0.0186 / 0.825) * 100 = 2.26\%$ (rounding) |                                                                                                                            |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                                      |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | Tune-U211220-1<br>12/20/2021 10:11                                   | $m/z \ 175 = 7.6\%$<br>$(28997 / 380416) * 100 = 7.622 = 7.62\%$                                                           |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Page 202, ICV-U220301-1<br>3/02/2022 at 03:00                     | Benzene = 9.91 ppbv<br>$(867860 * 10 \text{ ppbv}) / (1061036 * 0.825) = 9.91 \text{ ppbv}$                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | RRFs were not present on ICV data                                    |                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %R                                                                                                                                                                                         | L4 Page 200, ICV-U220301-1<br>3/02/2022 at 03:00                     | Benzene = 96.3%<br>$(9.91 \text{ ppbv} / 10.3 \text{ ppbv}) * 100 = 96.3\%$                                                |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Page 11, CCV-U220313-1<br>3/13/2022 14:23                         | Benzene = 10.74 ppbv<br>$(780955 * 10) / (881379 * 0.825) = 10.74 \text{ ppbv}$                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | L4 Page 8, CCV-U220313-1<br>3/13/2022 14:23                          | Benzene = 0.869<br>$(780955 * 10) / (881379 * 10.2) = 0.869$                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Page 8, CCV-U220313-1<br>3/13/2022 14:23                          | Benzene = -5.3%<br>$((0.825 - 0.869) / 0.825) * 100 = -5.3\%$                                                              |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Check result                                                                                                                                                                                               | L4 Page 26, MBLK-U220313-1<br>3/13/2022 17:49                        | Acetone = 0.09 ppbv<br>$(3800 * 10) / (338444 * 1.257) = 0.09 \text{ ppbv}$                                                |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22030865

Method: TO-15

|                                                        |                                                |                                                                   |                                                                                                             |
|--------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Surrogate                                              | Recalculate one %R                             | L4 Page 42, EOS-AA02-031322<br>3/13/2022 20:29                    | Bromofluorobenzene = 94.8%<br>(9.48 ppbv/10.0 ppbv)*100 = 94.8%                                             |
| MS                                                     | Check result                                   | NA - No MS/MSD on project sample                                  |                                                                                                             |
|                                                        | Recalculate one %R                             | NA - No MS/MSD on project sample                                  |                                                                                                             |
| MSD                                                    | Check result                                   | NA - No MS/MSD on project sample                                  |                                                                                                             |
|                                                        | Recalculate one %R                             | NA - No MS/MSD on project sample                                  |                                                                                                             |
|                                                        | Recalculate one RPD value between MS and MSD   | NA - No MS/MSD on project sample                                  |                                                                                                             |
| LCS                                                    | Check result                                   | L4 Page 17, LCS-U220313-1<br>3/13/2022 at 15:14                   | Benzene = 10.6 ppbv<br>(818029*10 ppbv)/(931783*0.825) = 10.6 ppbv                                          |
|                                                        | Recalculate one %R                             | L2 Page 15, LCS-U220313-1<br>3/13/2022 at 15:14                   | Benzene = 103.3%<br>(10.64 ppbv/10.3 ppbv)*100 = 103.3%                                                     |
| LCSD                                                   | Check result                                   | L4 Page 22,LCSD-U220313-1<br>3/13/2022 16:04                      | Benzene = 10.56 ppbv<br>(838455*10 ppbv)/(962157*0.825) = 10.56 ppbv                                        |
|                                                        | Recalculate one %R                             | L2 Page 15, LCSD-U211220-1<br>3/13/2022 16:04                     | Benzene = 102.5%<br>(10.56 ppbv/10.3 ppbv)*100 = 102.5%                                                     |
|                                                        | Recalculate one RPD value between LCS and LCSD | L2 Page 15, , LCSD-U211220-1<br>3/13/2022 16:04                   | Benzene RPD = 0.75%<br>(abs(10.64-10.56)/((10.64+10.56)/2))*100 = 0.75 %                                    |
| Internal Standards                                     | Recalculate one %R                             | NA                                                                | IS %Rs were not calculated in data package. IS recoveries were evaluated and within 50%-200% of CCV         |
|                                                        | Recalculate one delta RT                       | NA                                                                | IS delta RTs were not calculated in data package. IS RTs were evaluated and within + or - 10 seconds of CCV |
| Sample Result for EOS-AA02-031322                      | Check result                                   | L4 Page 42, EOS-AA02-031322 (22030865-001A)<br>3/13/2022 at 20:29 | Benzene = 1.02 ppbv<br>(69709*10 ppbv)/(831589*0.825) = 1.02 ppbv                                           |
| MDL for EOS-AA02-031322                                | Check result                                   | Volume in blank and sample were the same. No change in MDLs       |                                                                                                             |
| RL for EOS-AA02-031322                                 | Check result                                   | Volume in blank and sample were the same. No change in RLs        |                                                                                                             |
| Convert µg/m <sup>3</sup> to ppbv (air only) for _____ | Check result                                   | L2 Page 15, EOS-AA02-031322<br>3/13/2022 at 20:29                 | Benzene = 3.26 ug/m <sup>3</sup><br>[(1.02 ppbv*78.11 g/mol)/24.45 l/mol]/1000ug/mg = 3.26 ug/m3            |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**22030865**

| Initial Calibration<br>GC-MS Inst. U | VOC by TO-15<br>benzene pg. 155 |       |       |       |       |        |       |       |
|--------------------------------------|---------------------------------|-------|-------|-------|-------|--------|-------|-------|
| Concentration (ppbv) <sup>1</sup>    | 0.1020                          | 0.204 | 0.410 | 2.04  | 4.08  | 10.2   | 20.4  | 40.8  |
| Rf                                   | 0.853                           | 0.822 | 0.813 | 0.838 | 0.837 | 0.8280 | 0.821 | 0.791 |

|         |        |   |
|---------|--------|---|
| Std Dev | 0.0186 |   |
| Mean Rf | 0.825  | ✓ |
| %RSD    | 2.26   | ✓ |

Concentration 0.41 (ppbv) Rf Check<sup>1</sup>

benzene area = 32525, 0.41 ppbv<sup>1</sup> pg. 180  
 1,4-difluorobenzene (internal standard) ; pg. 180

$$\frac{32525}{976277} \times 10 \text{ ppbv} = 0.813 \quad \checkmark$$

$$\frac{\quad}{\quad} \times 0.41 \text{ ppbv}$$

Concentration 10.2 (ppbv) Rf Check<sup>1</sup>

benzene area = 835863, 10.2 ppbv<sup>1</sup> pg. 189  
 1,4-difluorobenzene (internal standard) ; pg. 189

$$\frac{835863}{989564} \times 10 \text{ ppbv} = 0.828 \quad \checkmark$$

$$\frac{\quad}{\quad} \times 10.2 \text{ ppbv}$$

Concentration 40.8 (ppbv) Rf Check<sup>1</sup>

carbon tetrachloride area = 3674958, 40 pg. 195  
 1,4-difluorobenzene (internal standard) ; pg. 195

$$\frac{3674958}{1139242} \times 10 \text{ ppbv} = 0.791 \quad \checkmark$$

$$\frac{\quad}{\quad} \times 40.8 \text{ ppbv}$$

1 - The laboratory stock standard used to create the initial calibration (ICAL) standards did not contain the same concentration for each analyte. As a result, it was necessary to correct the calibration levels for each analyte in order to reproduce the ICAL response factors the laboratory reported on their ICAL summary. For example, the stock standard contained benzene at 20.8 ppbv instead of 20 ppbv. To reproduce the initial calibration response factors the calibration levels for benzene were corrected by a factor of 1.04 units (20.8 ppbv/20 ppbv).

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                                |                                                |                                         |
|-------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505               | <b>TO/TOLIN No.</b>                            | 68HE0519F0071/0001DC102                 |
| <b>Document Tracking No.</b>              | 1154f                                          | <b>Technical Reviewer (signature and date)</b> | <i>Harry N. Ellis III</i> 20 April 2022 |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/19/2022                   | <b>Laboratory</b>                              | Teklab, Inc. – Collinsville, IL         |
| <b>Laboratory Report No.</b>              | 22030896                                       |                                                |                                         |
| <b>Analyses</b>                           | Volatile organic compounds by EPA Method TO-15 |                                                |                                         |
| <b>Samples and Matrix</b>                 | One air sample                                 |                                                |                                         |
| <b>Collection Date(s)</b>                 | March 13, 2022                                 |                                                |                                         |
| <b>Field Duplicate Pairs</b>              | None                                           |                                                |                                         |
| <b>Field QC Blanks</b>                    | None                                           |                                                |                                         |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No qualification of data was required for this data package. The results may be used as reported by the laboratory.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Instrument Performance Checks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Initial Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Continuing Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Calibration Verification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Method blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Field blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Interference Check Samples (ICS) (ICP metals only):**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Surrogates and labeled compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**MS/MSDs:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Post digestion spikes:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Serial dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Laboratory duplicates:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**Field duplicates:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**LCSs/LCSDs:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| Y                      |                         |

**Sample dilutions:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b>                                                                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y                      | A ten-fold (10x) dilution was required due to high concentrations of target analytes. A further dilution of forty-fold (40x) was required for n-hexane to bring the concentration within the calibration range of the instrument. Method detection limits (MDLs) and reporting limits (RLs) were adjusted accordingly. |

**Re-extraction and reanalysis:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Second column confirmation (GC and HPLC analyses only):**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Internal Standards:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Target analyte identification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Analyte quantitation and MDLs/RLs:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                          |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Y                  | No concentrations were reported between the MDL and RL. Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Other [specify]:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



## DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
 TEKLAB REPORT NO. 22030896

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA01-031322 | TO-15  | 1,1,1-Trichloroethane                 | ND         |          | 2.73 | 27.3 | ug/m3 | 27.3       | U        |
| EOS-AA01-031322 | TO-15  | 1,1,2,2-Tetrachloroethane             | ND         |          | 2.75 | 34.3 | ug/m3 | 34.3       | U        |
| EOS-AA01-031322 | TO-15  | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND         |          | 3.83 | 38.3 | ug/m3 | 38.3       | U        |
| EOS-AA01-031322 | TO-15  | 1,1,2-Trichloroethane                 | ND         |          | 2.18 | 27.3 | ug/m3 | 27.3       | U        |
| EOS-AA01-031322 | TO-15  | 1,1-Dichloroethane                    | ND         |          | 2.02 | 20.2 | ug/m3 | 20.2       | U        |
| EOS-AA01-031322 | TO-15  | 1,1-Dichloroethene                    | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031322 | TO-15  | 1,2,4-Trichlorobenzene                | ND         |          | 13.4 | 37.1 | ug/m3 | 37.1       | U        |
| EOS-AA01-031322 | TO-15  | 1,2,4-Trimethylbenzene                | ND         |          | 4.92 | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031322 | TO-15  | 1,2-Dibromoethane                     | ND         |          | 6.92 | 38.4 | ug/m3 | 38.4       | U        |
| EOS-AA01-031322 | TO-15  | 1,2-Dichlorobenzene                   | ND         |          | 4.81 | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031322 | TO-15  | 1,2-Dichloroethane                    | ND         |          | 2.02 | 20.2 | ug/m3 | 20.2       | U        |
| EOS-AA01-031322 | TO-15  | 1,2-Dichloropropane                   | ND         |          | 2.31 | 23.1 | ug/m3 | 23.1       | U        |
| EOS-AA01-031322 | TO-15  | 1,3,5-Trimethylbenzene                | ND         |          | 5.9  | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031322 | TO-15  | 1,3-Butadiene                         | ND         |          | 2.88 | 22.1 | ug/m3 | 22.1       | U        |
| EOS-AA01-031322 | TO-15  | 1,3-Dichlorobenzene                   | ND         |          | 2.4  | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031322 | TO-15  | 1,4-Dichlorobenzene                   | ND         |          | 3.61 | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031322 | TO-15  | 2-Butanone                            | ND         |          | 2.95 | 29.5 | ug/m3 | 29.5       | U        |
| EOS-AA01-031322 | TO-15  | 2-Hexanone                            | ND         |          | 4.92 | 20.5 | ug/m3 | 20.5       | U        |
| EOS-AA01-031322 | TO-15  | 4-Methyl-2-pentanone                  | ND         |          | 2.05 | 20.5 | ug/m3 | 20.5       | U        |
| EOS-AA01-031322 | TO-15  | Acetone                               | ND         |          | 14.7 | 47.5 | ug/m3 | 47.5       | U        |
| EOS-AA01-031322 | TO-15  | Benzene                               |            | 355      | 1.6  | 16   | ug/m3 | 355        |          |
| EOS-AA01-031322 | TO-15  | Bromodichloromethane                  | ND         |          | 3.35 | 33.5 | ug/m3 | 33.5       | U        |
| EOS-AA01-031322 | TO-15  | Bromoform                             | ND         |          | 3.1  | 51.7 | ug/m3 | 51.7       | U        |
| EOS-AA01-031322 | TO-15  | Bromomethane                          | ND         |          | 2.33 | 19.4 | ug/m3 | 19.4       | U        |
| EOS-AA01-031322 | TO-15  | Carbon disulfide                      | ND         |          | 3.11 | 15.6 | ug/m3 | 15.6       | U        |
| EOS-AA01-031322 | TO-15  | Carbon tetrachloride                  | ND         |          | 3.15 | 31.5 | ug/m3 | 31.5       | U        |
| EOS-AA01-031322 | TO-15  | Chlorobenzene                         | ND         |          | 3.68 | 23   | ug/m3 | 23.0       | U        |
| EOS-AA01-031322 | TO-15  | Chloroethane                          | ND         |          | 1.98 | 13.2 | ug/m3 | 13.2       | U        |
| EOS-AA01-031322 | TO-15  | Chloroform                            | ND         |          | 1.95 | 24.4 | ug/m3 | 24.4       | U        |
| EOS-AA01-031322 | TO-15  | Chloromethane                         | ND         |          | 1.03 | 10.3 | ug/m3 | 10.3       | U        |
| EOS-AA01-031322 | TO-15  | cis-1,2-Dichloroethene                | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031322 | TO-15  | cis-1,3-dichloropropene               | ND         |          | 3.18 | 22.7 | ug/m3 | 22.7       | U        |
| EOS-AA01-031322 | TO-15  | Cyclohexane                           |            | 922      | 3.44 | 17.2 | ug/m3 | 922        |          |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
 TEKLAB REPORT NO. 22030896

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA01-031322 | TO-15  | Dibromochloromethane      | ND         |          | 4.26 | 42.6 | ug/m3 | 42.6       | U        |
| EOS-AA01-031322 | TO-15  | Dichlorodifluoromethane   | ND         |          | 2.47 | 24.7 | ug/m3 | 24.7       | U        |
| EOS-AA01-031322 | TO-15  | Dichlorotetrafluoroethane | ND         |          | 3.5  | 35   | ug/m3 | 35.0       | U        |
| EOS-AA01-031322 | TO-15  | Ethyl acetate             | ND         |          | 6.13 | 36   | ug/m3 | 36.0       | U        |
| EOS-AA01-031322 | TO-15  | Ethylbenzene              | 41.7       |          | 2.17 | 21.7 | ug/m3 | 41.7       |          |
| EOS-AA01-031322 | TO-15  | Hexachlorobutadiene       | ND         |          | 3.2  | 53.3 | ug/m3 | 53.3       | U        |
| EOS-AA01-031322 | TO-15  | m,p-Xylene                | 202        |          | 3.91 | 43.4 | ug/m3 | 202        |          |
| EOS-AA01-031322 | TO-15  | Methyl tert-butyl ether   | ND         |          | 1.8  | 18   | ug/m3 | 18.0       | U        |
| EOS-AA01-031322 | TO-15  | Methylene chloride        | ND         |          | 3.13 | 34.7 | ug/m3 | 34.7       | U        |
| EOS-AA01-031322 | TO-15  | n-Heptane                 | 1660       |          | 4.1  | 20.5 | ug/m3 | 1660       |          |
| EOS-AA01-031322 | TO-15  | n-Hexane                  | 4160       |          | 7.05 | 70.5 | ug/m3 | 4160       |          |
| EOS-AA01-031322 | TO-15  | o-Xylene                  | 45.2       |          | 5.64 | 21.7 | ug/m3 | 45.2       |          |
| EOS-AA01-031322 | TO-15  | p-Ethyltoluene            | ND         |          | 2.46 | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031322 | TO-15  | Propylene                 | ND         |          | 1.03 | 8.61 | ug/m3 | 8.61       | U        |
| EOS-AA01-031322 | TO-15  | Styrene                   | ND         |          | 4.69 | 21.3 | ug/m3 | 21.3       | U        |
| EOS-AA01-031322 | TO-15  | Tetrachloroethene         | ND         |          | 4.07 | 33.9 | ug/m3 | 33.9       | U        |
| EOS-AA01-031322 | TO-15  | Tetrahydrofuran           | ND         |          | 4.72 | 14.7 | ug/m3 | 14.7       | U        |
| EOS-AA01-031322 | TO-15  | Toluene                   | 573        |          | 2.26 | 18.8 | ug/m3 | 573        |          |
| EOS-AA01-031322 | TO-15  | trans-1,2-Dichloroethene  | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031322 | TO-15  | trans-1,3-dichloropropene | ND         |          | 2.27 | 22.7 | ug/m3 | 22.7       | U        |
| EOS-AA01-031322 | TO-15  | Trichloroethene           | ND         |          | 2.69 | 26.9 | ug/m3 | 26.9       | U        |
| EOS-AA01-031322 | TO-15  | Trichlorofluoromethane    | ND         |          | 2.81 | 28.1 | ug/m3 | 28.1       | U        |
| EOS-AA01-031322 | TO-15  | Vinyl acetate             | ND         |          | 1.76 | 17.6 | ug/m3 | 17.6       | U        |
| EOS-AA01-031322 | TO-15  | Vinyl chloride            | ND         |          | 2.81 | 12.8 | ug/m3 | 12.8       | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22030896

Method: TO-15

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                                                   | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | lcal 3/01/2022, Method file T15_U2022_03.M                                          | See ethylbenzene lcal reproduction at end of recalculations                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        |                                                                                     | lcal at correct frequency and samples run within 12 hours of CCV                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 248, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M                   | ethylbenzene 0.42 ppbv RRF = 1.001<br>$(41025 * 10 \text{ ppbv}) / (976277 * 0.42 \text{ ppbv}) = 1.001$                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 248, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M                   | Calculated RRF: ethylbenzene = 1.181<br>$(0.960 + 1.001 + 1.214 + 1.252 + 1.298 + 1.308 + 1.237) / 7 = 1.181$              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L4 Page 248, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M                                                                                                                                          | ethylbenzene %RSD = 11.98%<br>$(0.1416 / 1.181) * 100 = 11.99\% \text{ (rounding)}$ |                                                                                                                            |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                                                     |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | Tune-U220314-1<br>3/14/2022 09:39                                                   | m/z 175 = 7.7%<br>$(16412 / 213888) * 100 = 7.7\%$                                                                         |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Page 296, ICV-U220301-1<br>3/02/2022 at 03:00                                    | ethylbenzene = 11.05 ppbv<br>$(1384587 * 10 \text{ ppbv}) / (1061036 * 1.181) = 11.05 \text{ ppbv}$                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | RRFs were not present on ICV data                                                   |                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %R                                                                                                                                                                                         | L4 Page 294, ICV-U220301-1<br>3/02/2022 at 03:00                                    | ethylbenzene = 104%<br>$(11.05 \text{ ppbv} / 10.7 \text{ ppbv}) * 100 = 104\%$                                            |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Page 13-14, CCV-U220314-1<br>3/14/2022 10:31                                     | ethylbenzene = 12.08 ppbv<br>$(1327690 * 10 \text{ ppbv}) / (930355 * 1.181) = 12.08 \text{ ppbv}$                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | L4 Page 11, CCV-U220314-1<br>3/14/2022 10:31                                        | ethylbenzene = 1.359<br>$(1327690 * 10 \text{ ppbv}) / (930355 * 10.5 \text{ ppbv}) = 1.359$                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Page 11, CCV-U220314-1<br>3/14/2022 10:31                                        | ethylbenzene = -15.1%<br>$((1.181 - 1.359) / 1.181) * 100 = -15.1\%$                                                       |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Check result                                                                                                                                                                                               | L4 Page 28, MBLK-U220314-1<br>3/14/2022 13:57                                       | Acetone = 0.08 ppbv<br>$(3779 * 10 \text{ ppbv}) / (338444 * 1.257) = 0.08 \text{ ppbv} (< \text{RL} = \text{ND})$         |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22030896

Method: TO-15

|                                                                          |                                                |                                                                 |                                                                                                             |
|--------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Surrogate                                                                | Recalculate one %R                             | L4 Page 33, EOS-AA01-031322<br>03/14/2022 14:46                 | Bromofluoroethylbenzene = 103.9%<br>(10.39 ppbv/10.0 ppbv)*100 = 103.9%                                     |
| MS                                                                       | Check result                                   | NA - No MS/MSD on project sample                                |                                                                                                             |
|                                                                          | Recalculate one %R                             | NA - No MS/MSD on project sample                                |                                                                                                             |
| MSD                                                                      | Check result                                   | NA - No MS/MSD on project sample                                |                                                                                                             |
|                                                                          | Recalculate one %R                             | NA - No MS/MSD on project sample                                |                                                                                                             |
|                                                                          | Recalculate one RPD value between MS and MSD   | NA - No MS/MSD on project sample                                |                                                                                                             |
| LCS                                                                      | Check result                                   | L4 Page 18-19, LCS-U220314-1<br>3/14/2022 at 11:21              | ethylbenzene = 11.68 ppbv<br>(1381966*10 ppbv)/(1001504*1.181) = 11.68 ppbv                                 |
|                                                                          | Recalculate one %R                             | L2 Page 16, LCS-U220314-1<br>3/14/2022 at 11:21                 | ethylbenzene = 109.2%<br>(11.68 ppbv/10.7 ppbv)*100 = 109.2%                                                |
| LCSD                                                                     | Check result                                   | L4 Page 23-24, LCSD-U220314-1<br>3/14/2022 12:11                | ethylbenzene = 11.63 ppbv<br>(1424099*10 ppbv)/(1036263*1.181) = 11.63 ppbv                                 |
|                                                                          | Recalculate one %R                             | L2 Page 14, LCSD-U220314-1<br>3/14/2022 12:11                   | ethylbenzene = 108.7%<br>(11.63 ppbv/10.7 ppbv)*100 = 108.7%                                                |
|                                                                          | Recalculate one RPD value between LCS and LCSD | L2 Page 14, LCSD-U220314-1<br>3/14/2022 12:11                   | ethylbenzene RPD = 0.43%<br>(abs(11.63-11.68)/((11.63+11.68)/2))*100 = 0.43 %                               |
| Internal Standards                                                       | Recalculate one %R                             | NA                                                              | IS %Rs were not calculated in data package. IS recoveries were evaluated and within 50%-200% of CCV         |
|                                                                          | Recalculate one delta RT                       | NA                                                              | IS delta RTs were not calculated in data package. IS RTs were evaluated and within + or - 10 seconds of CCV |
| Sample Result for EOS-AA01-031322                                        | Check result                                   | L4 Page 33, EOS-AA02-031322 (22030896-001A)<br>03/14/2022 14:46 | ethylbenzene = 0.96 ppbv<br>(105839*10 ppbv)/(935119*1.181) = 0.96 ppbv                                     |
| MDL for EOS-AA02-031322                                                  | Check result                                   | Volume in blank and sample were the same. No change in MDLs     |                                                                                                             |
| RL for EOS-AA02-031322                                                   | Check result                                   | Volume in blank and sample were the same. No change in RLs      |                                                                                                             |
| Convert ppbv to µg/m <sup>3</sup> (air only)<br>*****for EOS-AA01-031322 | Check result                                   | L2 Page 7, EOS-AA01-031322<br>3/14/2022 at 14:46                | ethylbenzene = 41.7 ug/m3<br>[(0.96 ppbv*106.1650 g/mol)/24.45 l/mol]*10 {DF} = 41.7 ug/m3                  |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

\*\*\*\*\* ppbv to ug/m3 = (Raw result in ppbv\*molecular weight in g/mol)/24.45 l/mol [one liter = one meter cubed (m3)]

RPD = [(A-B) / ((A + B)/2)] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**22030896**

|                                   |              |         |       |       |       |        |       |       |
|-----------------------------------|--------------|---------|-------|-------|-------|--------|-------|-------|
| Initial Calibration               | VOC by TO-15 |         |       |       |       |        |       |       |
| GC-MS Inst. U                     | ethylbenzene | pg. 248 |       |       |       |        |       |       |
| Concentration (ppbv) <sup>1</sup> |              | 0.210   | 0.420 | 2.10  | 4.20  | 10.5   | 21.0  | 42.0  |
| Rf                                |              | 0.960   | 1.001 | 1.214 | 1.252 | 1.2980 | 1.308 | 1.237 |

|         |        |   |
|---------|--------|---|
| Std Dev | 0.1416 |   |
| Mean Rf | 1.181  | ✓ |
| %RSD    | 11.99  | ✓ |

Concentration 0.42 (ppbv) Rf Check<sup>1</sup>ethylbenzene area = 41025, 0.42 ppbv<sup>1</sup> pg. 274

1,4-difluorobenzene (internal standard) area = 976277, 10.0 ppbv pg. 273

$$\frac{41025}{976277} \times \frac{10 \text{ ppbv}}{0.42 \text{ ppbv}} = 1.001 \quad \checkmark$$

Concentration 10.5 (ppbv) Rf Check<sup>1</sup>ethylbenzene area = 1348422, 10.5 ppbv<sup>1</sup> pg. 283

1,4-difluorobenzene (internal standard) area = 989564, 10.0 ppbv pg. 282

$$\frac{1348422}{989564} \times \frac{10 \text{ ppbv}}{10.5 \text{ ppbv}} = 1.298 \quad \checkmark$$

Concentration 42 (ppbv) Rf Check<sup>1</sup>ethylbenzene area = 5920890, 42 ppbv<sup>1</sup> pg. 289

1,4-difluorobenzene (internal standard) area = 1139242, 10.0 ppbv pg. 288

$$\frac{5920890}{1139242} \times \frac{10 \text{ ppbv}}{42 \text{ ppbv}} = 1.237 \quad \checkmark$$

1 - The laboratory stock standard used to create the initial calibration (ICAL) standards did not contain the same concentration for each analyte. As a result, it was necessary to correct the calibration levels for each analyte in order to reproduce the ICAL response factors the laboratory reported on their ICAL summary. For example, the stock standard contained ethylbenzene at 21 ppbv instead of 20 ppbv. To reproduce the initial calibration response factors the calibration levels for benzene were corrected by a factor of 1.05 units (21 ppbv/20 ppbv).

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                  |                                                |                                                |
|-------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505 | <b>TO/TOLIN No.</b>                            | 68HE0519F0071/0001DC102                        |
| <b>Document Tracking No.</b>              | 1154g                            | <b>Technical Reviewer (signature and date)</b> | <i>Harry N. Ellis III</i> 20 April 2022        |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/19/2022     | <b>Laboratory</b>                              | Teklab, Inc. – Collinsville, IL                |
| <b>Laboratory Report No.</b>              | 22030940                         | <b>Analyses</b>                                | Volatile organic compounds by EPA Method TO-15 |
| <b>Samples and Matrix</b>                 | Two air samples                  | <b>Collection Date(s)</b>                      | March 14, 2022                                 |
| <b>Field Duplicate Pairs</b>              | None                             | <b>Field QC Blanks</b>                         | None                                           |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No qualification of data was required for this data package. The results may be used as reported by the laboratory.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                                                                                           |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y                  | Sample EOS-AA02-031422 on the chain of custody (CoC) was labeled as EOS-AA04-031422 on the canister. The laboratory utilized the canister number to identify this sample. No further action was necessary. |

**Instrument Performance Checks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Initial Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Continuing Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Calibration Verification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Method blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Field blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Interference Check Samples (ICS) (ICP metals only):**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Surrogates and labeled compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**MS/MSDs:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Post digestion spikes:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Serial dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Laboratory duplicates:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**Field duplicates:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**LCSs/LCSDs:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| Y                      |                         |

**Sample dilutions:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b>                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y                      | A ten-fold (10x) dilution was required for EOS-AA01-031422 due to high concentrations of target analytes. Method detection limits (MDLs) and reporting limits (RLs) were adjusted accordingly. |

**Re-extraction and reanalysis:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Second column confirmation (GC and HPLC analyses only):**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**Internal Standards:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| Y                      |                         |

**Target analyte identification:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| Y                      |                         |

**Analyte quantitation and MDLs/RLs:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b>                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Y                      | No concentrations were reported between the MDL and RL. Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**Other [specify]:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |



### DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

#### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



## MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY

TEKLAB REPORT NO. 22030940

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA01-031422 | TO-15  | 1,1,1-Trichloroethane                 | ND         |          | 2.73 | 27.3 | ug/m3 | 27.3       | U        |
| EOS-AA01-031422 | TO-15  | 1,1,2,2-Tetrachloroethane             | ND         |          | 2.75 | 34.3 | ug/m3 | 34.3       | U        |
| EOS-AA01-031422 | TO-15  | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND         |          | 3.83 | 38.3 | ug/m3 | 38.3       | U        |
| EOS-AA01-031422 | TO-15  | 1,1,2-Trichloroethane                 | ND         |          | 2.18 | 27.3 | ug/m3 | 27.3       | U        |
| EOS-AA01-031422 | TO-15  | 1,1-Dichloroethane                    | ND         |          | 2.02 | 20.2 | ug/m3 | 20.2       | U        |
| EOS-AA01-031422 | TO-15  | 1,1-Dichloroethene                    | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031422 | TO-15  | 1,2,4-Trichlorobenzene                | ND         |          | 13.4 | 37.1 | ug/m3 | 37.1       | U        |
| EOS-AA01-031422 | TO-15  | 1,2,4-Trimethylbenzene                | ND         |          | 4.92 | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031422 | TO-15  | 1,2-Dibromoethane                     | ND         |          | 6.92 | 38.4 | ug/m3 | 38.4       | U        |
| EOS-AA01-031422 | TO-15  | 1,2-Dichlorobenzene                   | ND         |          | 4.81 | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031422 | TO-15  | 1,2-Dichloroethane                    | ND         |          | 2.02 | 20.2 | ug/m3 | 20.2       | U        |
| EOS-AA01-031422 | TO-15  | 1,2-Dichloropropane                   | ND         |          | 2.31 | 23.1 | ug/m3 | 23.1       | U        |
| EOS-AA01-031422 | TO-15  | 1,3,5-Trimethylbenzene                | ND         |          | 5.9  | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031422 | TO-15  | 1,3-Butadiene                         | ND         |          | 2.88 | 22.1 | ug/m3 | 22.1       | U        |
| EOS-AA01-031422 | TO-15  | 1,3-Dichlorobenzene                   | ND         |          | 2.4  | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031422 | TO-15  | 1,4-Dichlorobenzene                   | ND         |          | 3.61 | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031422 | TO-15  | 2-Butanone                            | ND         |          | 2.95 | 29.5 | ug/m3 | 29.5       | U        |
| EOS-AA01-031422 | TO-15  | 2-Hexanone                            | ND         |          | 4.92 | 20.5 | ug/m3 | 20.5       | U        |
| EOS-AA01-031422 | TO-15  | 4-Methyl-2-pentanone                  | ND         |          | 2.05 | 20.5 | ug/m3 | 20.5       | U        |
| EOS-AA01-031422 | TO-15  | Acetone                               | ND         |          | 14.7 | 47.5 | ug/m3 | 47.5       | U        |
| EOS-AA01-031422 | TO-15  | Benzene                               | 77.3       |          | 1.6  | 16   | ug/m3 | 77.3       |          |
| EOS-AA01-031422 | TO-15  | Bromodichloromethane                  | ND         |          | 3.35 | 33.5 | ug/m3 | 33.5       | U        |
| EOS-AA01-031422 | TO-15  | Bromoform                             | ND         |          | 3.1  | 51.7 | ug/m3 | 51.7       | U        |
| EOS-AA01-031422 | TO-15  | Bromomethane                          | ND         |          | 2.33 | 19.4 | ug/m3 | 19.4       | U        |
| EOS-AA01-031422 | TO-15  | Carbon disulfide                      | ND         |          | 3.11 | 15.6 | ug/m3 | 15.6       | U        |
| EOS-AA01-031422 | TO-15  | Carbon tetrachloride                  | ND         |          | 3.15 | 31.5 | ug/m3 | 31.5       | U        |
| EOS-AA01-031422 | TO-15  | Chlorobenzene                         | ND         |          | 3.68 | 23   | ug/m3 | 23.0       | U        |
| EOS-AA01-031422 | TO-15  | Chloroethane                          | ND         |          | 1.98 | 13.2 | ug/m3 | 13.2       | U        |
| EOS-AA01-031422 | TO-15  | Chloroform                            | ND         |          | 1.95 | 24.4 | ug/m3 | 24.4       | U        |
| EOS-AA01-031422 | TO-15  | Chloromethane                         | ND         |          | 1.03 | 10.3 | ug/m3 | 10.3       | U        |
| EOS-AA01-031422 | TO-15  | cis-1,2-Dichloroethene                | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031422 | TO-15  | cis-1,3-dichloropropene               | ND         |          | 3.18 | 22.7 | ug/m3 | 22.7       | U        |
| EOS-AA01-031422 | TO-15  | Cyclohexane                           | 237        |          | 3.44 | 17.2 | ug/m3 | 237        |          |

## MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY

TEKLAB REPORT NO. 22030940

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA01-031422 | TO-15  | Dibromochloromethane                  | ND         |          | 4.26 | 42.6 | ug/m3 | 42.6       | U        |
| EOS-AA01-031422 | TO-15  | Dichlorodifluoromethane               | ND         |          | 2.47 | 24.7 | ug/m3 | 24.7       | U        |
| EOS-AA01-031422 | TO-15  | Dichlorotetrafluoroethane             | ND         |          | 3.5  | 35   | ug/m3 | 35.0       | U        |
| EOS-AA01-031422 | TO-15  | Ethyl acetate                         | ND         |          | 6.13 | 36   | ug/m3 | 36.0       | U        |
| EOS-AA01-031422 | TO-15  | Ethylbenzene                          | ND         |          | 2.17 | 21.7 | ug/m3 | 21.7       | U        |
| EOS-AA01-031422 | TO-15  | Hexachlorobutadiene                   | ND         |          | 3.2  | 53.3 | ug/m3 | 53.3       | U        |
| EOS-AA01-031422 | TO-15  | m,p-Xylene                            | ND         |          | 3.91 | 43.4 | ug/m3 | 43.4       | U        |
| EOS-AA01-031422 | TO-15  | Methyl tert-butyl ether               | ND         |          | 1.8  | 18   | ug/m3 | 18.0       | U        |
| EOS-AA01-031422 | TO-15  | Methylene chloride                    | ND         |          | 3.13 | 34.7 | ug/m3 | 34.7       | U        |
| EOS-AA01-031422 | TO-15  | n-Heptane                             |            | 394      | 4.1  | 20.5 | ug/m3 | 394        |          |
| EOS-AA01-031422 | TO-15  | n-Hexane                              |            | 990      | 1.76 | 17.6 | ug/m3 | 990        |          |
| EOS-AA01-031422 | TO-15  | o-Xylene                              | ND         |          | 5.64 | 21.7 | ug/m3 | 21.7       | U        |
| EOS-AA01-031422 | TO-15  | p-Ethyltoluene                        | ND         |          | 2.46 | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031422 | TO-15  | Propylene                             | ND         |          | 1.03 | 8.61 | ug/m3 | 8.61       | U        |
| EOS-AA01-031422 | TO-15  | Styrene                               | ND         |          | 4.69 | 21.3 | ug/m3 | 21.3       | U        |
| EOS-AA01-031422 | TO-15  | Tetrachloroethene                     | ND         |          | 4.07 | 33.9 | ug/m3 | 33.9       | U        |
| EOS-AA01-031422 | TO-15  | Tetrahydrofuran                       | ND         |          | 4.72 | 14.7 | ug/m3 | 14.7       | U        |
| EOS-AA01-031422 | TO-15  | Toluene                               |            | 115      | 2.26 | 18.8 | ug/m3 | 115        |          |
| EOS-AA01-031422 | TO-15  | trans-1,2-Dichloroethene              | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031422 | TO-15  | trans-1,3-dichloropropene             | ND         |          | 2.27 | 22.7 | ug/m3 | 22.7       | U        |
| EOS-AA01-031422 | TO-15  | Trichloroethene                       | ND         |          | 2.69 | 26.9 | ug/m3 | 26.9       | U        |
| EOS-AA01-031422 | TO-15  | Trichlorofluoromethane                | ND         |          | 2.81 | 28.1 | ug/m3 | 28.1       | U        |
| EOS-AA01-031422 | TO-15  | Vinyl acetate                         | ND         |          | 1.76 | 17.6 | ug/m3 | 17.6       | U        |
| EOS-AA01-031422 | TO-15  | Vinyl chloride                        | ND         |          | 2.81 | 12.8 | ug/m3 | 12.8       | U        |
| EOS-AA02-031422 | TO-15  | 1,1,1-Trichloroethane                 | ND         |          | 0.27 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA02-031422 | TO-15  | 1,1,2,2-Tetrachloroethane             | ND         |          | 0.27 | 3.43 | ug/m3 | 3.43       | U        |
| EOS-AA02-031422 | TO-15  | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND         |          | 0.38 | 3.83 | ug/m3 | 3.83       | U        |
| EOS-AA02-031422 | TO-15  | 1,1,2-Trichloroethane                 | ND         |          | 0.22 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA02-031422 | TO-15  | 1,1-Dichloroethane                    | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA02-031422 | TO-15  | 1,1-Dichloroethene                    | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031422 | TO-15  | 1,2,4-Trichlorobenzene                | ND         |          | 1.34 | 3.71 | ug/m3 | 3.71       | U        |
| EOS-AA02-031422 | TO-15  | 1,2,4-Trimethylbenzene                | ND         |          | 0.49 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031422 | TO-15  | 1,2-Dibromoethane                     | ND         |          | 0.69 | 3.84 | ug/m3 | 3.84       | U        |

## MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY

TEKLAB REPORT NO. 22030940

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA02-031422 | TO-15  | 1,2-Dichlorobenzene       | ND         |          | 0.48 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031422 | TO-15  | 1,2-Dichloroethane        | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA02-031422 | TO-15  | 1,2-Dichloropropane       | ND         |          | 0.23 | 2.31 | ug/m3 | 2.31       | U        |
| EOS-AA02-031422 | TO-15  | 1,3,5-Trimethylbenzene    | ND         |          | 0.59 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031422 | TO-15  | 1,3-Butadiene             | ND         |          | 0.29 | 2.21 | ug/m3 | 2.21       | U        |
| EOS-AA02-031422 | TO-15  | 1,3-Dichlorobenzene       | ND         |          | 0.24 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031422 | TO-15  | 1,4-Dichlorobenzene       | ND         |          | 0.36 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031422 | TO-15  | 2-Butanone                | ND         |          | 0.29 | 2.95 | ug/m3 | 2.95       | U        |
| EOS-AA02-031422 | TO-15  | 2-Hexanone                | ND         |          | 0.49 | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031422 | TO-15  | 4-Bromofluorobenzene      | 67.1       |          | 0    |      | ug/m3 | 67.1       |          |
| EOS-AA02-031422 | TO-15  | 4-Methyl-2-pentanone      | ND         |          | 0.2  | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031422 | TO-15  | Acetone                   | 5.75       |          | 1.47 | 4.75 | ug/m3 | 5.75       |          |
| EOS-AA02-031422 | TO-15  | Benzene                   | ND         |          | 0.16 | 1.6  | ug/m3 | 1.60       | U        |
| EOS-AA02-031422 | TO-15  | Bromodichloromethane      | ND         |          | 0.34 | 3.35 | ug/m3 | 3.35       | U        |
| EOS-AA02-031422 | TO-15  | Bromoform                 | ND         |          | 0.31 | 5.17 | ug/m3 | 5.17       | U        |
| EOS-AA02-031422 | TO-15  | Bromomethane              | ND         |          | 0.23 | 1.94 | ug/m3 | 1.94       | U        |
| EOS-AA02-031422 | TO-15  | Carbon disulfide          | ND         |          | 0.31 | 1.56 | ug/m3 | 1.56       | U        |
| EOS-AA02-031422 | TO-15  | Carbon tetrachloride      | ND         |          | 0.31 | 3.15 | ug/m3 | 3.15       | U        |
| EOS-AA02-031422 | TO-15  | Chlorobenzene             | ND         |          | 0.37 | 2.3  | ug/m3 | 2.30       | U        |
| EOS-AA02-031422 | TO-15  | Chloroethane              | ND         |          | 0.21 | 1.32 | ug/m3 | 1.32       | U        |
| EOS-AA02-031422 | TO-15  | Chloroform                | ND         |          | 0.2  | 2.44 | ug/m3 | 2.44       | U        |
| EOS-AA02-031422 | TO-15  | Chloromethane             | 1.09       |          | 0.1  | 1.03 | ug/m3 | 1.09       |          |
| EOS-AA02-031422 | TO-15  | cis-1,2-Dichloroethene    | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031422 | TO-15  | cis-1,3-dichloropropene   | ND         |          | 0.32 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA02-031422 | TO-15  | Cyclohexane               | ND         |          | 0.34 | 1.72 | ug/m3 | 1.72       | U        |
| EOS-AA02-031422 | TO-15  | Dibromochloromethane      | ND         |          | 0.43 | 4.26 | ug/m3 | 4.26       | U        |
| EOS-AA02-031422 | TO-15  | Dichlorodifluoromethane   | ND         |          | 0.25 | 2.47 | ug/m3 | 2.47       | U        |
| EOS-AA02-031422 | TO-15  | Dichlorotetrafluoroethane | ND         |          | 0.35 | 3.5  | ug/m3 | 3.50       | U        |
| EOS-AA02-031422 | TO-15  | Ethyl acetate             | ND         |          | 0.61 | 3.6  | ug/m3 | 3.60       | U        |
| EOS-AA02-031422 | TO-15  | Ethylbenzene              | ND         |          | 0.22 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA02-031422 | TO-15  | Hexachlorobutadiene       | ND         |          | 0.32 | 5.33 | ug/m3 | 5.33       | U        |
| EOS-AA02-031422 | TO-15  | m,p-Xylene                | ND         |          | 0.39 | 4.34 | ug/m3 | 4.34       | U        |
| EOS-AA02-031422 | TO-15  | Methyl tert-butyl ether   | ND         |          | 0.18 | 1.8  | ug/m3 | 1.80       | U        |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
TEKLAB REPORT NO. 22030940

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA02-031422 | TO-15  | Methylene chloride        | ND         |          | 0.31 | 3.47 | ug/m3 | 3.47       | U        |
| EOS-AA02-031422 | TO-15  | n-Heptane                 | ND         |          | 0.41 | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031422 | TO-15  | n-Hexane                  | ND         |          | 0.18 | 1.76 | ug/m3 | 1.76       | U        |
| EOS-AA02-031422 | TO-15  | o-Xylene                  | ND         |          | 0.56 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA02-031422 | TO-15  | p-Ethyltoluene            | ND         |          | 0.25 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031422 | TO-15  | Propylene                 | ND         |          | 0.1  | 0.86 | ug/m3 | 0.86       | U        |
| EOS-AA02-031422 | TO-15  | Styrene                   | ND         |          | 0.47 | 2.13 | ug/m3 | 2.13       | U        |
| EOS-AA02-031422 | TO-15  | Tetrachloroethene         | ND         |          | 0.41 | 3.39 | ug/m3 | 3.39       | U        |
| EOS-AA02-031422 | TO-15  | Tetrahydrofuran           | ND         |          | 0.47 | 1.47 | ug/m3 | 1.47       | U        |
| EOS-AA02-031422 | TO-15  | Toluene                   | ND         |          | 0.23 | 1.88 | ug/m3 | 1.88       | U        |
| EOS-AA02-031422 | TO-15  | trans-1,2-Dichloroethene  | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031422 | TO-15  | trans-1,3-dichloropropene | ND         |          | 0.23 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA02-031422 | TO-15  | Trichloroethene           | ND         |          | 0.27 | 2.69 | ug/m3 | 2.69       | U        |
| EOS-AA02-031422 | TO-15  | Trichlorofluoromethane    | ND         |          | 0.28 | 2.81 | ug/m3 | 2.81       | U        |
| EOS-AA02-031422 | TO-15  | Vinyl acetate             | ND         |          | 0.18 | 1.76 | ug/m3 | 1.76       | U        |
| EOS-AA02-031422 | TO-15  | Vinyl chloride            | ND         |          | 0.28 | 1.28 | ug/m3 | 1.28       | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22030940

Method: TO-15

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                                           | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | lcal 3/01/2022, Method file T15_U2022_03.M                                  | See ethylbenzene lcal reproduction at end of recalculations                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        |                                                                             | lcal at correct frequency and samples run within 12 hours of CCV                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 291, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M           | ethylbenzene 0.42 ppbv RRF = 1.001<br>$(41025 * 10 \text{ ppbv}) / (976277 * 0.42 \text{ ppbv}) = 1.001$                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 291, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M           | Calculated RRF: ethylbenzene = 1.181<br>$(0.960 + 1.001 + 1.214 + 1.252 + 1.298 + 1.308 + 1.237) / 7 = 1.181$              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L4 Page 291, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M                                                                                                                                          | ethylbenzene %RSD = 11.98%<br>$(0.1416 / 1.181) * 100 = 11.99\%$ (rounding) |                                                                                                                            |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                                             |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | L4 Page 9, Tune-U220315-1<br>3/15/2022 08:50                                | m/z 175 = 7.5%<br>$(14429 / 191979) * 100 = 7.5\%$                                                                         |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Page 338, ICV-U220301-1<br>3/02/2022 at 03:00                            | ethylbenzene = 11.05 ppbv<br>$(1384587 * 10 \text{ ppbv}) / (1061036 * 1.181) = 11.05 \text{ ppbv}$                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | RRFs were not present on ICV data                                           |                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %R                                                                                                                                                                                         | L4 Page 336, ICV-U220301-1<br>3/02/2022 at 03:00                            | ethylbenzene = 104%<br>$(11.05 \text{ ppbv} / 10.7 \text{ ppbv}) * 100 = 104\%$                                            |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Page 13-14, CCV-U220315-1<br>3/15/2022 09:44                             | ethylbenzene = 12.39 ppbv<br>$(1247502 * 10 \text{ ppbv}) / (852634 * 1.181) = 12.39 \text{ ppbv}$                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | L4 Page 11, CCV-U220315-1<br>3/15/2022 09:44                                | ethylbenzene = 1.393<br>$(1247502 * 10 \text{ ppbv}) / (852634 * 10.5 \text{ ppbv}) = 1.393$                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Page 11, CCV-U220315-1<br>3/15/2022 09:44                                | ethylbenzene = -18%<br>$((1.181 - 1.393) / 1.181) * 100 = -18\%$                                                           |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Check result                                                                                                                                                                                               | L4 Page 38, MBLK-U220315-1<br>3/15/2022 14:01                               | ND                                                                                                                         |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22030940

Method: TO-15

|                                                                          |                                                |                                                             |                                                                                                             |
|--------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Surrogate                                                                | Recalculate one %R                             | L4 Page 43, EOS-AA01-031422<br>03/15/2022 14:50             | Bromofluoroethylbenzene = 96.3%<br>(9.63 ppbv/10.0 ppbv)*100 = 96.3%                                        |
| MS                                                                       | Check result                                   | NA - No MS/MSD on project sample                            |                                                                                                             |
|                                                                          | Recalculate one %R                             | NA - No MS/MSD on project sample                            |                                                                                                             |
| MSD                                                                      | Check result                                   | NA - No MS/MSD on project sample                            |                                                                                                             |
|                                                                          | Recalculate one %R                             | NA - No MS/MSD on project sample                            |                                                                                                             |
|                                                                          | Recalculate one RPD value between MS and MSD   | NA - No MS/MSD on project sample                            |                                                                                                             |
| LCS                                                                      | Check result                                   | L4 Page 18-19, LCS-U220315-1<br>3/15/2022 10:35             | ethylbenzene = 11.98 ppbv<br>(1302074*10 ppbv)/(920148*1.181) = 11.98 ppbv                                  |
|                                                                          | Recalculate one %R                             | L2 Page 18, LCS-U220315-1<br>3/15/2022 10:35                | ethylbenzene = 112%<br>(12 ppbv/10.7 ppbv)*100 = 112%                                                       |
| LCSD                                                                     | Check result                                   | L4 Page 29-30, LCSD-U220315-1<br>3/14/2022 12:15            | ethylbenzene = 11.89 ppbv<br>(1385949*10 ppbv)/(986537*1.181) = 11.89 ppbv                                  |
|                                                                          | Recalculate one %R                             | L2 Page 14, LCSD-U220315-1<br>3/14/2022 12:15               | ethylbenzene = 111.1%<br>(11.89 ppbv/10.7 ppbv)*100 = 111.1%                                                |
|                                                                          | Recalculate one RPD value between LCS and LCSD | L2 Page 14, LCSD-U220315-1<br>3/14/2022 12:15               | ethylbenzene RPD = 0.43%<br>(abs(11.98-11.89)/((11.98+11.89)/2))*100 = 0.43 %                               |
| Internal Standards                                                       | Recalculate one %R                             | NA                                                          | IS %Rs were not calculated in data package. IS recoveries were evaluated and within 50%-200% of CCV         |
|                                                                          | Recalculate one delta RT                       | NA                                                          | IS delta RTs were not calculated in data package. IS RTs were evaluated and within + or - 10 seconds of CCV |
| Sample Result for EOS-AA01-031422                                        | Check result                                   | L4 Page 43, EOS-AA01-031422<br>03/15/2022 14:50             | ethylbenzene = 0.17 ppbv<br>(17710*10 ppbv)/(866772*1.181) = 0.17 ppbv                                      |
| MDL for EOS-AA02-031322                                                  | Check result                                   | Volume in blank and sample were the same. No change in MDLs |                                                                                                             |
| RL for EOS-AA02-031322                                                   | Check result                                   | Volume in blank and sample were the same. No change in RLs  |                                                                                                             |
| Convert ppbv to µg/m <sup>3</sup> (air only)<br>*****for EOS-AA01-031422 | Check result                                   | L2 Page 7, EOS-AA01-031422<br>03/15/2022 14:50              | benzene = 77.3 ug/m3<br>[(2.42 ppbv*78.11 g/mol)/24.45 l/mol]*10 {DF} = 77.3 ug/m3                          |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

\*\*\*\*\* ppbv to ug/m3 = (Raw result in ppbv\*molecular weight in g/mol)/24.45 l/mol [one liter = one meter cubed (m3)]

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**22030940**

|                                   |              |         |       |       |       |        |       |       |
|-----------------------------------|--------------|---------|-------|-------|-------|--------|-------|-------|
| Initial Calibration               | VOC by TO-15 |         |       |       |       |        |       |       |
| GC-MS Inst. U                     | ethylbenzene | pg. 292 |       |       |       |        |       |       |
| Concentration (ppbv) <sup>1</sup> |              | 0.210   | 0.420 | 2.10  | 4.20  | 10.5   | 21.0  | 42.0  |
| Rf                                |              | 0.960   | 1.001 | 1.214 | 1.252 | 1.2980 | 1.308 | 1.237 |

|         |        |   |
|---------|--------|---|
| Std Dev | 0.1416 |   |
| Mean Rf | 1.181  | ✓ |
| %RSD    | 11.99  | ✓ |

Concentration 0.42 (ppbv) Rf Check<sup>1</sup>ethylbenzene area = 41025, 0.42 ppbv<sup>1</sup> pg. 314

1,4-difluorobenzene (internal standard) area = 976277, 10.0 ppbv pg. 313

|        |   |           |   |       |   |
|--------|---|-----------|---|-------|---|
| 41025  | x | 10 ppbv   | = | 1.001 | ✓ |
| 976277 | x | 0.42 ppbv |   |       |   |

Concentration 10.5 (ppbv) Rf Check<sup>1</sup>ethylbenzene area = 1348422, 10.5 ppbv<sup>1</sup> pg. 326

1,4-difluorobenzene (internal standard) area = 989564, 10.0 ppbv pg. 325

|         |   |           |   |       |   |
|---------|---|-----------|---|-------|---|
| 1348422 | x | 10 ppbv   | = | 1.298 | ✓ |
| 989564  | x | 10.5 ppbv |   |       |   |

Concentration 42 (ppbv) Rf Check<sup>1</sup>ethylbenzene area = 5920890, 42 ppbv<sup>1</sup> pg. 332

1,4-difluorobenzene (internal standard) area = 1139242, 10.0 ppbv pg. 331

|         |   |         |   |       |   |
|---------|---|---------|---|-------|---|
| 5920890 | x | 10 ppbv | = | 1.237 | ✓ |
| 1139242 | x | 42 ppbv |   |       |   |

1 - The laboratory stock standard used to create the initial calibration (ICAL) standards did not contain the same concentration for each analyte. As a result, it was necessary to correct the calibration levels for each analyte in order to reproduce the ICAL response factors the laboratory reported on their ICAL summary. For example, the stock standard contained ethylbenzene at 21 ppbv instead of 20 ppbv. To reproduce the initial calibration response factors the calibration levels for benzene were corrected by a factor of 1.05 units (21 ppbv/20 ppbv).

**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

|                                           |                                  |                                                |                                                |
|-------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------------|
| <b>Site Name</b>                          | Marathon Pipeline Release E22505 | <b>TO/TOLIN No.</b>                            | 68HE0519F0071/0001DC102                        |
| <b>Document Tracking No.</b>              | 1154h                            | <b>Technical Reviewer (signature and date)</b> | <i>Harry N. Ellis III</i> 20 April 2022        |
| <b>Data Reviewer (signature and date)</b> | <i>Caron Smith</i> 4/19/2022     | <b>Laboratory</b>                              | Teklab, Inc. – Collinsville, IL                |
| <b>Laboratory Report No.</b>              | 22031025                         | <b>Analyses</b>                                | Volatile organic compounds by EPA Method TO-15 |
| <b>Samples and Matrix</b>                 | Three air samples                | <b>Collection Date(s)</b>                      | March 15, 2022                                 |
| <b>Field Duplicate Pairs</b>              | None                             | <b>Field QC Blanks</b>                         | None                                           |

**INTRODUCTION**

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 3* (January 2022) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No qualification of data was required for this data package. The results may be used as reported by the laboratory.

**Data completeness:**

| Within Criteria | Exceedance/Notes |
|-----------------|------------------|
| Y               |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Sample preservation, receipt, and holding times:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Instrument Performance Checks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Initial Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Continuing Calibration:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Calibration Verification:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Method blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Field blanks:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Interference Check Samples (ICS) (ICP metals only):**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Surrogates and labeled compounds:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**MS/MSDs:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Post digestion spikes:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Serial dilutions:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Laboratory duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**Field duplicates:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |

**LCSs/LCSDs:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y                  |                  |

**Sample dilutions:**

| Within<br>Criteria | Exceedance/Notes                                                                                                                                                                                                                                                                                                                           |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y                  | <b>EOS-AA01-031522:</b> A ten-fold (10x) dilution was required due to high concentrations of target analytes. A further dilution of forty-fold (40x) was required to bring the n-hexane concentration within the calibration range of the instrument. Method detection limits (MDLs) and reporting limits (RLs) were adjusted accordingly. |

**Re-extraction and reanalysis:**

| Within<br>Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA                 |                  |



**DATA VALIDATION CHECKLIST – STAGE 3  
EPA REGION 5 START CONTRACT**

**Second column confirmation (GC and HPLC analyses only):**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**Internal Standards:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| Y                      |                         |

**Target analyte identification:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| Y                      |                         |

**Analyte quantitation and MDLs/RLs:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b>                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Y                      | No concentrations were reported between the MDL and RL. Sample-specific MDLs and RLs are provided in the attached analytical data tables. |

**Tentatively identified compounds:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |

**Other [specify]:**

| <b>Within Criteria</b> | <b>Exceedance/Notes</b> |
|------------------------|-------------------------|
| NA                     |                         |



## DATA VALIDATION CHECKLIST – STAGE 3 EPA REGION 5 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

|    |                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.                                                                          |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.                                                   |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.                                                    |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.                    |
| R  | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.                                 |
| U  | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).                                                                                              |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |



## MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY

TEKLAB REPORT NO. 22031025

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA01-031522 | TO-15  | 1,1,1-Trichloroethane                 | ND         |          | 2.73 | 27.3 | ug/m3 | 27.3       | U        |
| EOS-AA01-031522 | TO-15  | 1,1,2,2-Tetrachloroethane             | ND         |          | 2.75 | 34.3 | ug/m3 | 34.3       | U        |
| EOS-AA01-031522 | TO-15  | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND         |          | 3.83 | 38.3 | ug/m3 | 38.3       | U        |
| EOS-AA01-031522 | TO-15  | 1,1,2-Trichloroethane                 | ND         |          | 2.18 | 27.3 | ug/m3 | 27.3       | U        |
| EOS-AA01-031522 | TO-15  | 1,1-Dichloroethane                    | ND         |          | 2.02 | 20.2 | ug/m3 | 20.2       | U        |
| EOS-AA01-031522 | TO-15  | 1,1-Dichloroethene                    | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031522 | TO-15  | 1,2,4-Trichlorobenzene                | ND         |          | 13.4 | 37.1 | ug/m3 | 37.1       | U        |
| EOS-AA01-031522 | TO-15  | 1,2,4-Trimethylbenzene                | ND         |          | 4.92 | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031522 | TO-15  | 1,2-Dibromoethane                     | ND         |          | 6.92 | 38.4 | ug/m3 | 38.4       | U        |
| EOS-AA01-031522 | TO-15  | 1,2-Dichlorobenzene                   | ND         |          | 4.81 | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031522 | TO-15  | 1,2-Dichloroethane                    | ND         |          | 2.02 | 20.2 | ug/m3 | 20.2       | U        |
| EOS-AA01-031522 | TO-15  | 1,2-Dichloropropane                   | ND         |          | 2.31 | 23.1 | ug/m3 | 23.1       | U        |
| EOS-AA01-031522 | TO-15  | 1,3,5-Trimethylbenzene                | ND         |          | 5.9  | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031522 | TO-15  | 1,3-Butadiene                         | ND         |          | 2.88 | 22.1 | ug/m3 | 22.1       | U        |
| EOS-AA01-031522 | TO-15  | 1,3-Dichlorobenzene                   | ND         |          | 2.4  | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031522 | TO-15  | 1,4-Dichlorobenzene                   | ND         |          | 3.61 | 30.1 | ug/m3 | 30.1       | U        |
| EOS-AA01-031522 | TO-15  | 2-Butanone                            | ND         |          | 2.95 | 29.5 | ug/m3 | 29.5       | U        |
| EOS-AA01-031522 | TO-15  | 2-Hexanone                            | ND         |          | 4.92 | 20.5 | ug/m3 | 20.5       | U        |
| EOS-AA01-031522 | TO-15  | 4-Methyl-2-pentanone                  | ND         |          | 2.05 | 20.5 | ug/m3 | 20.5       | U        |
| EOS-AA01-031522 | TO-15  | Acetone                               | ND         |          | 14.7 | 47.5 | ug/m3 | 47.5       | U        |
| EOS-AA01-031522 | TO-15  | Benzene                               |            | 153      | 1.6  | 16   | ug/m3 | 153        |          |
| EOS-AA01-031522 | TO-15  | Bromodichloromethane                  | ND         |          | 3.35 | 33.5 | ug/m3 | 33.5       | U        |
| EOS-AA01-031522 | TO-15  | Bromoform                             | ND         |          | 3.1  | 51.7 | ug/m3 | 51.7       | U        |
| EOS-AA01-031522 | TO-15  | Bromomethane                          | ND         |          | 2.33 | 19.4 | ug/m3 | 19.4       | U        |
| EOS-AA01-031522 | TO-15  | Carbon disulfide                      | ND         |          | 3.11 | 15.6 | ug/m3 | 15.6       | U        |
| EOS-AA01-031522 | TO-15  | Carbon tetrachloride                  | ND         |          | 3.15 | 31.5 | ug/m3 | 31.5       | U        |
| EOS-AA01-031522 | TO-15  | Chlorobenzene                         | ND         |          | 3.68 | 23   | ug/m3 | 23.0       | U        |
| EOS-AA01-031522 | TO-15  | Chloroethane                          | ND         |          | 1.98 | 13.2 | ug/m3 | 13.2       | U        |
| EOS-AA01-031522 | TO-15  | Chloroform                            | ND         |          | 1.95 | 24.4 | ug/m3 | 24.4       | U        |
| EOS-AA01-031522 | TO-15  | Chloromethane                         | ND         |          | 1.03 | 10.3 | ug/m3 | 10.3       | U        |
| EOS-AA01-031522 | TO-15  | cis-1,2-Dichloroethene                | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031522 | TO-15  | cis-1,3-dichloropropene               | ND         |          | 3.18 | 22.7 | ug/m3 | 22.7       | U        |
| EOS-AA01-031522 | TO-15  | Cyclohexane                           |            | 554      | 3.44 | 17.2 | ug/m3 | 554        |          |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
TEKLAB REPORT NO. 22031025

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA01-031522 | TO-15  | Dibromochloromethane                  | ND         |          | 4.26 | 42.6 | ug/m3 | 42.6       | U        |
| EOS-AA01-031522 | TO-15  | Dichlorodifluoromethane               | ND         |          | 2.47 | 24.7 | ug/m3 | 24.7       | U        |
| EOS-AA01-031522 | TO-15  | Dichlorotetrafluoroethane             | ND         |          | 3.5  | 35   | ug/m3 | 35.0       | U        |
| EOS-AA01-031522 | TO-15  | Ethyl acetate                         | ND         |          | 6.13 | 36   | ug/m3 | 36.0       | U        |
| EOS-AA01-031522 | TO-15  | Ethylbenzene                          | ND         |          | 2.17 | 21.7 | ug/m3 | 21.7       | U        |
| EOS-AA01-031522 | TO-15  | Hexachlorobutadiene                   | ND         |          | 3.2  | 53.3 | ug/m3 | 53.3       | U        |
| EOS-AA01-031522 | TO-15  | m,p-Xylene                            |            | 89       | 3.91 | 43.4 | ug/m3 | 89.0       |          |
| EOS-AA01-031522 | TO-15  | Methyl tert-butyl ether               | ND         |          | 1.8  | 18   | ug/m3 | 18.0       | U        |
| EOS-AA01-031522 | TO-15  | Methylene chloride                    | ND         |          | 3.13 | 34.7 | ug/m3 | 34.7       | U        |
| EOS-AA01-031522 | TO-15  | n-Heptane                             |            | 799      | 4.1  | 20.5 | ug/m3 | 799        |          |
| EOS-AA01-031522 | TO-15  | n-Hexane                              |            | 2010     | 7.05 | 70.5 | ug/m3 | 2010       |          |
| EOS-AA01-031522 | TO-15  | o-Xylene                              | ND         |          | 5.64 | 21.7 | ug/m3 | 21.7       | U        |
| EOS-AA01-031522 | TO-15  | p-Ethyltoluene                        | ND         |          | 2.46 | 24.6 | ug/m3 | 24.6       | U        |
| EOS-AA01-031522 | TO-15  | Propylene                             | ND         |          | 1.03 | 8.61 | ug/m3 | 8.61       | U        |
| EOS-AA01-031522 | TO-15  | Styrene                               | ND         |          | 4.69 | 21.3 | ug/m3 | 21.3       | U        |
| EOS-AA01-031522 | TO-15  | Tetrachloroethene                     | ND         |          | 4.07 | 33.9 | ug/m3 | 33.9       | U        |
| EOS-AA01-031522 | TO-15  | Tetrahydrofuran                       | ND         |          | 4.72 | 14.7 | ug/m3 | 14.7       | U        |
| EOS-AA01-031522 | TO-15  | Toluene                               |            | 244      | 2.26 | 18.8 | ug/m3 | 244        |          |
| EOS-AA01-031522 | TO-15  | trans-1,2-Dichloroethene              | ND         |          | 1.98 | 19.8 | ug/m3 | 19.8       | U        |
| EOS-AA01-031522 | TO-15  | trans-1,3-dichloropropene             | ND         |          | 2.27 | 22.7 | ug/m3 | 22.7       | U        |
| EOS-AA01-031522 | TO-15  | Trichloroethene                       | ND         |          | 2.69 | 26.9 | ug/m3 | 26.9       | U        |
| EOS-AA01-031522 | TO-15  | Trichlorofluoromethane                | ND         |          | 2.81 | 28.1 | ug/m3 | 28.1       | U        |
| EOS-AA01-031522 | TO-15  | Vinyl acetate                         | ND         |          | 1.76 | 17.6 | ug/m3 | 17.6       | U        |
| EOS-AA01-031522 | TO-15  | Vinyl chloride                        | ND         |          | 2.81 | 12.8 | ug/m3 | 12.8       | U        |
| EOS-AA02-031522 | TO-15  | 1,1,1-Trichloroethane                 | ND         |          | 0.27 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA02-031522 | TO-15  | 1,1,2,2-Tetrachloroethane             | ND         |          | 0.27 | 3.43 | ug/m3 | 3.43       | U        |
| EOS-AA02-031522 | TO-15  | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND         |          | 0.38 | 3.83 | ug/m3 | 3.83       | U        |
| EOS-AA02-031522 | TO-15  | 1,1,2-Trichloroethane                 | ND         |          | 0.22 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA02-031522 | TO-15  | 1,1-Dichloroethane                    | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA02-031522 | TO-15  | 1,1-Dichloroethene                    | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031522 | TO-15  | 1,2,4-Trichlorobenzene                | ND         |          | 1.34 | 3.71 | ug/m3 | 3.71       | U        |
| EOS-AA02-031522 | TO-15  | 1,2,4-Trimethylbenzene                | ND         |          | 0.49 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031522 | TO-15  | 1,2-Dibromoethane                     | ND         |          | 0.69 | 3.84 | ug/m3 | 3.84       | U        |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
 TEKLAB REPORT NO. 22031025

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA02-031522 | TO-15  | 1,2-Dichlorobenzene       | ND         |          | 0.48 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031522 | TO-15  | 1,2-Dichloroethane        | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA02-031522 | TO-15  | 1,2-Dichloropropane       | ND         |          | 0.23 | 2.31 | ug/m3 | 2.31       | U        |
| EOS-AA02-031522 | TO-15  | 1,3,5-Trimethylbenzene    | ND         |          | 0.59 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031522 | TO-15  | 1,3-Butadiene             | ND         |          | 0.29 | 2.21 | ug/m3 | 2.21       | U        |
| EOS-AA02-031522 | TO-15  | 1,3-Dichlorobenzene       | ND         |          | 0.24 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031522 | TO-15  | 1,4-Dichlorobenzene       | ND         |          | 0.36 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA02-031522 | TO-15  | 2-Butanone                | ND         |          | 0.29 | 2.95 | ug/m3 | 2.95       | U        |
| EOS-AA02-031522 | TO-15  | 2-Hexanone                | ND         |          | 0.49 | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031522 | TO-15  | 4-Methyl-2-pentanone      | ND         |          | 0.2  | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031522 | TO-15  | Acetone                   | 10.9       |          | 1.47 | 4.75 | ug/m3 | 10.9       |          |
| EOS-AA02-031522 | TO-15  | Benzene                   | ND         |          | 0.16 | 1.6  | ug/m3 | 1.60       | U        |
| EOS-AA02-031522 | TO-15  | Bromodichloromethane      | ND         |          | 0.34 | 3.35 | ug/m3 | 3.35       | U        |
| EOS-AA02-031522 | TO-15  | Bromoform                 | ND         |          | 0.31 | 5.17 | ug/m3 | 5.17       | U        |
| EOS-AA02-031522 | TO-15  | Bromomethane              | ND         |          | 0.23 | 1.94 | ug/m3 | 1.94       | U        |
| EOS-AA02-031522 | TO-15  | Carbon disulfide          | ND         |          | 0.31 | 1.56 | ug/m3 | 1.56       | U        |
| EOS-AA02-031522 | TO-15  | Carbon tetrachloride      | ND         |          | 0.31 | 3.15 | ug/m3 | 3.15       | U        |
| EOS-AA02-031522 | TO-15  | Chlorobenzene             | ND         |          | 0.37 | 2.3  | ug/m3 | 2.30       | U        |
| EOS-AA02-031522 | TO-15  | Chloroethane              | ND         |          | 0.21 | 1.32 | ug/m3 | 1.32       | U        |
| EOS-AA02-031522 | TO-15  | Chloroform                | ND         |          | 0.2  | 2.44 | ug/m3 | 2.44       | U        |
| EOS-AA02-031522 | TO-15  | Chloromethane             | 1.14       |          | 0.1  | 1.03 | ug/m3 | 1.14       |          |
| EOS-AA02-031522 | TO-15  | cis-1,2-Dichloroethene    | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031522 | TO-15  | cis-1,3-dichloropropene   | ND         |          | 0.32 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA02-031522 | TO-15  | Cyclohexane               | ND         |          | 0.34 | 1.72 | ug/m3 | 1.72       | U        |
| EOS-AA02-031522 | TO-15  | Dibromochloromethane      | ND         |          | 0.43 | 4.26 | ug/m3 | 4.26       | U        |
| EOS-AA02-031522 | TO-15  | Dichlorodifluoromethane   | ND         |          | 0.25 | 2.47 | ug/m3 | 2.47       | U        |
| EOS-AA02-031522 | TO-15  | Dichlorotetrafluoroethane | ND         |          | 0.35 | 3.5  | ug/m3 | 3.50       | U        |
| EOS-AA02-031522 | TO-15  | Ethyl acetate             | ND         |          | 0.61 | 3.6  | ug/m3 | 3.60       | U        |
| EOS-AA02-031522 | TO-15  | Ethylbenzene              | ND         |          | 0.22 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA02-031522 | TO-15  | Hexachlorobutadiene       | ND         |          | 0.32 | 5.33 | ug/m3 | 5.33       | U        |
| EOS-AA02-031522 | TO-15  | m,p-Xylene                | ND         |          | 0.39 | 4.34 | ug/m3 | 4.34       | U        |
| EOS-AA02-031522 | TO-15  | Methyl tert-butyl ether   | ND         |          | 0.18 | 1.8  | ug/m3 | 1.80       | U        |
| EOS-AA02-031522 | TO-15  | Methylene chloride        | ND         |          | 0.31 | 3.47 | ug/m3 | 3.47       | U        |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
TEKLAB REPORT NO. 22031025

| Sample ID       | Method | Analyte                               | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA02-031522 | TO-15  | n-Heptane                             | ND         |          | 0.41 | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA02-031522 | TO-15  | n-Hexane                              | 3.52       |          | 0.18 | 1.76 | ug/m3 | 3.52       |          |
| EOS-AA02-031522 | TO-15  | o-Xylene                              | ND         |          | 0.56 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA02-031522 | TO-15  | p-Ethyltoluene                        | ND         |          | 0.25 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA02-031522 | TO-15  | Propylene                             | ND         |          | 0.1  | 0.86 | ug/m3 | 0.86       | U        |
| EOS-AA02-031522 | TO-15  | Styrene                               | ND         |          | 0.47 | 2.13 | ug/m3 | 2.13       | U        |
| EOS-AA02-031522 | TO-15  | Tetrachloroethene                     | ND         |          | 0.41 | 3.39 | ug/m3 | 3.39       | U        |
| EOS-AA02-031522 | TO-15  | Tetrahydrofuran                       | ND         |          | 0.47 | 1.47 | ug/m3 | 1.47       | U        |
| EOS-AA02-031522 | TO-15  | Toluene                               | ND         |          | 0.23 | 1.88 | ug/m3 | 1.88       | U        |
| EOS-AA02-031522 | TO-15  | trans-1,2-Dichloroethene              | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA02-031522 | TO-15  | trans-1,3-dichloropropene             | ND         |          | 0.23 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA02-031522 | TO-15  | Trichloroethene                       | ND         |          | 0.27 | 2.69 | ug/m3 | 2.69       | U        |
| EOS-AA02-031522 | TO-15  | Trichlorofluoromethane                | ND         |          | 0.28 | 2.81 | ug/m3 | 2.81       | U        |
| EOS-AA02-031522 | TO-15  | Vinyl acetate                         | ND         |          | 0.18 | 1.76 | ug/m3 | 1.76       | U        |
| EOS-AA02-031522 | TO-15  | Vinyl chloride                        | ND         |          | 0.28 | 1.28 | ug/m3 | 1.28       | U        |
| EOS-AA03-031522 | TO-15  | 1,1,1-Trichloroethane                 | ND         |          | 0.27 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA03-031522 | TO-15  | 1,1,2,2-Tetrachloroethane             | ND         |          | 0.27 | 3.43 | ug/m3 | 3.43       | U        |
| EOS-AA03-031522 | TO-15  | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND         |          | 0.38 | 3.83 | ug/m3 | 3.83       | U        |
| EOS-AA03-031522 | TO-15  | 1,1,2-Trichloroethane                 | ND         |          | 0.22 | 2.73 | ug/m3 | 2.73       | U        |
| EOS-AA03-031522 | TO-15  | 1,1-Dichloroethane                    | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA03-031522 | TO-15  | 1,1-Dichloroethene                    | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA03-031522 | TO-15  | 1,2,4-Trichlorobenzene                | ND         |          | 1.34 | 3.71 | ug/m3 | 3.71       | U        |
| EOS-AA03-031522 | TO-15  | 1,2,4-Trimethylbenzene                | ND         |          | 0.49 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA03-031522 | TO-15  | 1,2-Dibromoethane                     | ND         |          | 0.69 | 3.84 | ug/m3 | 3.84       | U        |
| EOS-AA03-031522 | TO-15  | 1,2-Dichlorobenzene                   | ND         |          | 0.48 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA03-031522 | TO-15  | 1,2-Dichloroethane                    | ND         |          | 0.2  | 2.02 | ug/m3 | 2.02       | U        |
| EOS-AA03-031522 | TO-15  | 1,2-Dichloropropane                   | ND         |          | 0.23 | 2.31 | ug/m3 | 2.31       | U        |
| EOS-AA03-031522 | TO-15  | 1,3,5-Trimethylbenzene                | ND         |          | 0.59 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA03-031522 | TO-15  | 1,3-Butadiene                         | ND         |          | 0.29 | 2.21 | ug/m3 | 2.21       | U        |
| EOS-AA03-031522 | TO-15  | 1,3-Dichlorobenzene                   | ND         |          | 0.24 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA03-031522 | TO-15  | 1,4-Dichlorobenzene                   | ND         |          | 0.36 | 3.01 | ug/m3 | 3.01       | U        |
| EOS-AA03-031522 | TO-15  | 2-Butanone                            | ND         |          | 0.29 | 2.95 | ug/m3 | 2.95       | U        |
| EOS-AA03-031522 | TO-15  | 2-Hexanone                            | ND         |          | 0.49 | 2.05 | ug/m3 | 2.05       | U        |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
 TEKLAB REPORT NO. 22031025

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA03-031522 | TO-15  | 4-Methyl-2-pentanone      | ND         |          | 0.2  | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA03-031522 | TO-15  | Acetone                   | ND         |          | 1.47 | 4.75 | ug/m3 | 4.75       | U        |
| EOS-AA03-031522 | TO-15  | Benzene                   | ND         |          | 0.16 | 1.6  | ug/m3 | 1.60       | U        |
| EOS-AA03-031522 | TO-15  | Bromodichloromethane      | ND         |          | 0.34 | 3.35 | ug/m3 | 3.35       | U        |
| EOS-AA03-031522 | TO-15  | Bromoform                 | ND         |          | 0.31 | 5.17 | ug/m3 | 5.17       | U        |
| EOS-AA03-031522 | TO-15  | Bromomethane              | ND         |          | 0.23 | 1.94 | ug/m3 | 1.94       | U        |
| EOS-AA03-031522 | TO-15  | Carbon disulfide          | ND         |          | 0.31 | 1.56 | ug/m3 | 1.56       | U        |
| EOS-AA03-031522 | TO-15  | Carbon tetrachloride      | ND         |          | 0.31 | 3.15 | ug/m3 | 3.15       | U        |
| EOS-AA03-031522 | TO-15  | Chlorobenzene             | ND         |          | 0.37 | 2.3  | ug/m3 | 2.30       | U        |
| EOS-AA03-031522 | TO-15  | Chloroethane              | ND         |          | 0.21 | 1.32 | ug/m3 | 1.32       | U        |
| EOS-AA03-031522 | TO-15  | Chloroform                | ND         |          | 0.2  | 2.44 | ug/m3 | 2.44       | U        |
| EOS-AA03-031522 | TO-15  | Chloromethane             | 1.16       |          | 0.1  | 1.03 | ug/m3 | 1.16       |          |
| EOS-AA03-031522 | TO-15  | cis-1,2-Dichloroethene    | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA03-031522 | TO-15  | cis-1,3-dichloropropene   | ND         |          | 0.32 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA03-031522 | TO-15  | Cyclohexane               | ND         |          | 0.34 | 1.72 | ug/m3 | 1.72       | U        |
| EOS-AA03-031522 | TO-15  | Dibromochloromethane      | ND         |          | 0.43 | 4.26 | ug/m3 | 4.26       | U        |
| EOS-AA03-031522 | TO-15  | Dichlorodifluoromethane   | ND         |          | 0.25 | 2.47 | ug/m3 | 2.47       | U        |
| EOS-AA03-031522 | TO-15  | Dichlorotetrafluoroethane | ND         |          | 0.35 | 3.5  | ug/m3 | 3.50       | U        |
| EOS-AA03-031522 | TO-15  | Ethyl acetate             | ND         |          | 0.61 | 3.6  | ug/m3 | 3.60       | U        |
| EOS-AA03-031522 | TO-15  | Ethylbenzene              | ND         |          | 0.22 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA03-031522 | TO-15  | Hexachlorobutadiene       | ND         |          | 0.32 | 5.33 | ug/m3 | 5.33       | U        |
| EOS-AA03-031522 | TO-15  | m,p-Xylene                | ND         |          | 0.39 | 4.34 | ug/m3 | 4.34       | U        |
| EOS-AA03-031522 | TO-15  | Methyl tert-butyl ether   | ND         |          | 0.18 | 1.8  | ug/m3 | 1.80       | U        |
| EOS-AA03-031522 | TO-15  | Methylene chloride        | ND         |          | 0.31 | 3.47 | ug/m3 | 3.47       | U        |
| EOS-AA03-031522 | TO-15  | n-Heptane                 | ND         |          | 0.41 | 2.05 | ug/m3 | 2.05       | U        |
| EOS-AA03-031522 | TO-15  | n-Hexane                  | 2.19       |          | 0.18 | 1.76 | ug/m3 | 2.19       |          |
| EOS-AA03-031522 | TO-15  | o-Xylene                  | ND         |          | 0.56 | 2.17 | ug/m3 | 2.17       | U        |
| EOS-AA03-031522 | TO-15  | p-Ethyltoluene            | ND         |          | 0.25 | 2.46 | ug/m3 | 2.46       | U        |
| EOS-AA03-031522 | TO-15  | Propylene                 | ND         |          | 0.1  | 0.86 | ug/m3 | 0.86       | U        |
| EOS-AA03-031522 | TO-15  | Styrene                   | ND         |          | 0.47 | 2.13 | ug/m3 | 2.13       | U        |
| EOS-AA03-031522 | TO-15  | Tetrachloroethene         | ND         |          | 0.41 | 3.39 | ug/m3 | 3.39       | U        |
| EOS-AA03-031522 | TO-15  | Tetrahydrofuran           | ND         |          | 0.47 | 1.47 | ug/m3 | 1.47       | U        |
| EOS-AA03-031522 | TO-15  | Toluene                   | ND         |          | 0.23 | 1.88 | ug/m3 | 1.88       | U        |

MARATHON PIPELINE RELEASE E22505 AIR ANALYTICAL RESULTS SUMMARY  
TEKLAB REPORT NO. 22031025

| Sample ID       | Method | Analyte                   | Lab Result | Lab Qual | MDL  | RL   | Units | Val Result | Val Qual |
|-----------------|--------|---------------------------|------------|----------|------|------|-------|------------|----------|
| EOS-AA03-031522 | TO-15  | trans-1,2-Dichloroethene  | ND         |          | 0.2  | 1.98 | ug/m3 | 1.98       | U        |
| EOS-AA03-031522 | TO-15  | trans-1,3-dichloropropene | ND         |          | 0.23 | 2.27 | ug/m3 | 2.27       | U        |
| EOS-AA03-031522 | TO-15  | Trichloroethene           | ND         |          | 0.27 | 2.69 | ug/m3 | 2.69       | U        |
| EOS-AA03-031522 | TO-15  | Trichlorofluoromethane    | ND         |          | 0.28 | 2.81 | ug/m3 | 2.81       | U        |
| EOS-AA03-031522 | TO-15  | Vinyl acetate             | ND         |          | 0.18 | 1.76 | ug/m3 | 1.76       | U        |
| EOS-AA03-031522 | TO-15  | Vinyl chloride            | ND         |          | 0.28 | 1.28 | ug/m3 | 1.28       | U        |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22031025

Method: TO-15

| Validation Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Objective                                                                                                                                                                                                  | Sample ID, Run Date, and Run Time                                    | Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Initial Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required). | lcal 3/01/2022, Method file T15_U2022_03.M                           | See Benzene lcal reproduction at end of recalculations                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm (in raw data) that an initial calibration occurs at the required frequency.                                                                                                                        |                                                                      | lcal at correct frequency and samples run within 12 hours of CCV                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.                                                                                                           | L4 Page 316, CC-U220301-0.40<br>3/01/2022 at 21:01                   | Benzene RRF = 0.813<br>$(32525 * 10 \text{ ppbv}) / (976277 * 0.41 \text{ ppbv}) = 0.813$                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            | L4 Page 291, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M    | Calculated RRF: Benzene = 0.825<br>$(0.853 + 0.822 + 0.813 + 0.838 + 0.837 + 0.828 + 0.821 + 0.791) / 8 = 0.825$           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L4 Page 291, ICAL 11289, 3/01/2022<br>Method file: T15_U2022_03.M                                                                                                                                          | Benzene %RSD = 2.28%<br>$(0.0186 / 0.825) * 100 = 2.26\%$ (rounding) |                                                                                                                            |
| <p>Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.</p> <p align="right"><b>SHOW ALL WORK FOR RECALCULATIONS</b></p> |                                                                                                                                                                                                            |                                                                      |                                                                                                                            |
| Tune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Confirm BFB Percent Relative Abundance                                                                                                                                                                     | L4 Page 9, Tune-U220315-1<br>3/15/2022 08:50                         | $m/z \ 175 = 7.5\%$<br>$(14429 / 191979) * 100 = 7.5\%$                                                                    |
| ICV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Check result                                                                                                                                                                                               | L4 Page 338, ICV-U220301-1<br>3/02/2022 at 03:00                     | Benzene = 9.91 ppbv<br>$(867860 * 10 \text{ ppbv}) / (1061036 * 0.825) = 9.91 \text{ ppbv}$                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | RRFs were not present on ICV data                                    |                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %R                                                                                                                                                                                         | L4 Page 337, ICV-U220301-1<br>3/02/2022 at 03:00                     | Benzene = 96.3%<br>$(9.91 \text{ ppbv} / 10.3 \text{ ppbv}) * 100 = 96.3\%$                                                |
| A CCV applicable to our samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Check result                                                                                                                                                                                               | L4 Page 13-14, CCV-U220315-1<br>3/15/2022 09:44                      | Benzene = 10.96 ppbv<br>$(771293 * 10) / (852634 * 0.825) = 10.96 \text{ ppbv}$                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one RRF                                                                                                                                                                                        | L4 Page 10, CCV-U220315-1<br>3/15/2022 09:44                         | Benzene = 0.887<br>$(771293 * 10) / (852634 * 10.2) = 0.887$                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recalculate one %D                                                                                                                                                                                         | L4 Page 10, CCV-U220315-1<br>3/15/2022 09:44                         | Benzene = -7.5%<br>$((0.825 - 0.887) / 0.825) * 100 = -7.5\%$                                                              |
| Method Blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Check result                                                                                                                                                                                               | L4 Page 38, MBLK-U220315-1<br>3/15/2022 14:01                        | ND                                                                                                                         |

**STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS**

Data Package Number: 22031025

Method: TO-15

|                                                                  |                                                |                                                             |                                                                                                             |
|------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Surrogate                                                        | Recalculate one %R                             | L4 Page 91, EOS-AA01-031522<br>03/15/2022 19:20             | Bromofluorobenzene = 101.4%<br>(10.14 ppbv/10.0 ppbv)*100 = 101.4%                                          |
| MS                                                               | Check result                                   | NA - No MS/MSD on project sample                            |                                                                                                             |
|                                                                  | Recalculate one %R                             | NA - No MS/MSD on project sample                            |                                                                                                             |
| MSD                                                              | Check result                                   | NA - No MS/MSD on project sample                            |                                                                                                             |
|                                                                  | Recalculate one %R                             | NA - No MS/MSD on project sample                            |                                                                                                             |
|                                                                  | Recalculate one RPD value between MS and MSD   | NA - No MS/MSD on project sample                            |                                                                                                             |
| LCS                                                              | Check result                                   | L4 Page 18-19, LCS-U220315-1<br>3/15/2022 10:35             | ethylbenzene = 11.98 ppbv<br>(1302074*10 ppbv)/(920148*1.181) = 11.98 ppbv                                  |
|                                                                  | Recalculate one %R                             | L2 Page 20, LCS-U220315-1<br>3/15/2022 10:35                | ethylbenzene = 112%<br>(12 ppbv/10.7 ppbv)*100 = 112%                                                       |
| LCSD                                                             | Check result                                   | L4 Page 29-30, LCSD-U220315-1<br>3/14/2022 12:15            | ethylbenzene = 11.89 ppbv<br>(1385949*10 ppbv)/(986537*1.181) = 11.89 ppbv                                  |
|                                                                  | Recalculate one %R                             | L2 Page 18, LCSD-U220315-1<br>3/14/2022 12:15               | ethylbenzene = 111.1%<br>(11.89 ppbv/10.7 ppbv)*100 = 111.1%                                                |
|                                                                  | Recalculate one RPD value between LCS and LCSD | L2 Page 18, LCSD-U220315-1<br>3/14/2022 12:15               | ethylbenzene RPD = 0.75%<br>(abs(11.98-11.89)/((11.98+11.89)/2))*100 = 0.75 %                               |
| Internal Standards                                               | Recalculate one %R                             | NA                                                          | IS %Rs were not calculated in data package. IS recoveries were evaluated and within 50%-200% of CCV         |
|                                                                  | Recalculate one delta RT                       | NA                                                          | IS delta RTs were not calculated in data package. IS RTs were evaluated and within + or - 10 seconds of CCV |
| Sample Result for EOS-AA01-031522                                | Check result                                   | L4 Page 91, EOS-AA01-031522<br>03/15/2022 19:20             | Benzene = 4.8 ppbv<br>(69709*10 ppbv)/(831589*0.825) = 4.8 ppbv                                             |
| MDL for EOS-AA02-031322                                          | Check result                                   | Volume in blank and sample were the same. No change in MDLs |                                                                                                             |
| RL for EOS-AA02-031322                                           | Check result                                   | Volume in blank and sample were the same. No change in RLs  |                                                                                                             |
| Convert µg/m <sup>3</sup> to ppbv (air only) for EOS-AA01-031522 | Check result                                   | L2 Page 7, EOS-AA01-031522<br>03/15/2022 19:20              | Benzene = 153 ug/m <sup>3</sup><br>[(4.8 ppbv*78.11 g/mol)/24.45 l/mol] * 10 [DF]= 153 ug/m <sup>3</sup>    |

Formulas:

\* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

\*\* Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

\*\*\* %R = [(Measured Value) / (True Value)] x 100

\*\*\*\* %R = {(Spike sample result) - (Sample result)} / (Spike added) x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

**22031025**

| Initial Calibration<br>GC-MS Inst. U | VOC by TO-15<br>benzene |       |       |       |       |        |       |       |
|--------------------------------------|-------------------------|-------|-------|-------|-------|--------|-------|-------|
| Concentration (ppbv) <sup>1</sup>    | 0.1020                  | 0.204 | 0.410 | 2.04  | 4.08  | 10.2   | 20.4  | 40.8  |
| Rf                                   | 0.853                   | 0.822 | 0.813 | 0.838 | 0.837 | 0.8280 | 0.821 | 0.791 |

|         |        |   |
|---------|--------|---|
| Std Dev | 0.0186 |   |
| Mean Rf | 0.825  | ✓ |
| %RSD    | 2.26   | ✓ |

Concentration 0.41 (ppbv) Rf Check<sup>1</sup>

benzene area = 32525, 0.41 ppbv<sup>1</sup> pg. 316  
 1,4-difluorobenzene (internal standard) area = 976277, 10.0 ppbv pg. 316

$$\frac{32525}{976277} \times 10 \text{ ppbv} = 0.813 \quad \checkmark$$

$$\frac{32525}{976277} \times 0.41 \text{ ppbv} = 0.813 \quad \checkmark$$

Concentration 10.2 (ppbv) Rf Check<sup>1</sup>

benzene area = 835863, 10.2 ppbv<sup>1</sup> pg. 325  
 1,4-difluorobenzene (internal standard) area = 989564, 10.0 ppbv pg. 325

$$\frac{835863}{989564} \times 10 \text{ ppbv} = 0.828 \quad \checkmark$$

$$\frac{835863}{989564} \times 10.2 \text{ ppbv} = 0.828 \quad \checkmark$$

Concentration 40.8 (ppbv) Rf Check<sup>1</sup>

benzene area = 3674958, 40.8 ppbv<sup>1</sup> pg. 331  
 1,4-difluorobenzene (internal standard) area = 1139242, 10.0 ppbv pg. 331

$$\frac{3674958}{1139242} \times 10 \text{ ppbv} = 0.791 \quad \checkmark$$

$$\frac{3674958}{1139242} \times 40.8 \text{ ppbv} = 0.791 \quad \checkmark$$

1 - The laboratory stock standard used to create the initial calibration (ICAL) standards did not contain the same concentration for each analyte. As a result, it was necessary to correct the calibration levels for each analyte in order to reproduce the ICAL response factors the laboratory reported on their ICAL summary. For example, the stock standard contained benzene at 20.8 ppbv instead of 20 ppbv. To reproduce the initial calibration response factors the calibration levels for benzene were corrected by a factor of 1.04 units (20.8 ppbv/20 ppbv).